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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 seconds  
(without alignments)  
669,524 Million cell updates/sec

Title: US-09-832-659A-59  
Perfect score: 866  
Sequence: 1 MSYNLGLFQSSNFQCKL.....RAEILANFARLTGYLRN 166

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2.6/prodata/2/aa/5A-COMB.pdp:\*  
2: /cgn2.6/prodata/2/aa/5B-COMB.pdp:\*  
3: /cgn2.6/prodata/2/aa/6A-COMB.pdp:\*  
4: /cgn2.6/prodata/2/aa/6B-COMB.pdp:\*  
5: /cgn2.6/prodata/2/aa/PCTUS-COMB.pdp:\*  
6: /cgn2.6/prodata/2/aa/backfiles.pdp:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	832	96.1	166	4	US-09-397-992A-7
2	832	96.1	166	4	US-09-569-722A-1
3	832	96.1	166	4	US-09-648-569A-2
4	832	96.1	166	4	US-09-971-843-7
5	832	96.1	166	4	US-09-403-532E-1
6	832	96.1	166	4	US-09-462-941-5
7	832	96.1	166	6	5514567-4
8	832	96.1	187	3	US-09-206-903A-9
9	832	96.1	187	3	US-08-406-030A-30
10	832	96.1	187	3	US-09-202-122-9
11	832	96.1	187	3	US-09-208-935-7
12	832	96.1	187	4	US-09-208-936-7
13	832	96.1	187	4	US-09-487-792-4
14	832	96.1	187	4	US-09-908-594-4
15	832	96.1	187	4	US-09-919-622A-9
16	832	96.1	187	6	5514567-1
17	832	96.1	415	4	US-09-215-212-14
18	830	95.8	166	2	US-08-477-310A-1
19	827	95.5	166	1	US-08-213-148-1
20	827	95.5	166	3	US-08-912-768-1
21	827	95.5	166	4	US-09-569-722A-4
22	827	95.5	166	4	US-09-569-722A-18
23	827	95.5	166	5	PCT-US95-03206-1
24	827	95.5	166	4	US-08-912-768-3
25	825	95.3	187	4	US-09-487-792-21
26	825	95.3	166	4	US-09-808-594-21
27	824	95.2	187	1	US-08-026-758-22

## ALIGNMENTS

## RESULT 1

US-09-397-992A-7  
; Sequence 7, Application US/09397992A

; Patent No. 6329175

; GENERAL INFORMATION:

; APPLICANT: Conklin, Darrell

; APPLICANT: Grant, Francis J.

; APPLICANT: Rixon, Mark W.

; APPLICANT: Kindsvogel, Wayne

; TITLE OF INVENTION: Interferon-epsilon

; FILE REFERENCE: 98-46

; CURRENT APPLICATION NUMBER: US/09/397,992A

; PRIOR FILING DATE: 1999-09-16

; PRIOR APPLICATION NUMBER: 60/101,012

; PRIOR FILING DATE: 1998-09-18

; PRIOR APPLICATION NUMBER: 60/118,578

; PRIOR FILING DATE: 1999-02-05

; PRIOR APPLICATION NUMBER: 60/142,766

; PRIOR FILING DATE: 1999-07-08

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 7

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-397-992A-7

Query Match 96.1%; Score 832; DB 4; Length 166;

Best Local Similarity 96.4%; Pred. No. 1.9e-83;

Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLGLFQSSNFQCKLWQLNGLEYCLKDMNFDIPEEIKOLQOQKEDAAITY 60

Db 1 MSYNLGLFQSSNFQCKLWQLNGLEYCLKDMNFDIPEEIKOLQOQKEDAAITY 60

QY 61 EMLQNFIFRQDSSTGNETIVENLANYHYQHNLKTVLEEKLEKEDFTFGALMSSL 120

Db 61 EMLQNFIFRQDSSTGNETIVENLANYHYQHNLKTVLEEKLEKEDFTFGALMSSL 120

QY 121 HLKRYGYILAVLKAKEYSHCAWTIVAEILANFARLTGYLRN 166

Db 121 HLKRYGYILAVLKAKEYSHCAWTIVAEILANFARLTGYLRN 166

## RESULT 2

US-09-569-722A-1

; Sequence 1, Application US/09569722A

; Patent No. 6514729

; GENERAL INFORMATION:

; APPLICANT: Bentzien, Joerg M

```
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
; FILE REFERENCE: A-68059-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/569,722A
; CURRENT FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: US 60/133,785
; PRIOR FILING DATE: 1999-05-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match          96.1%; Score 832; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.9e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKLOQFOKEDAAITII 60
DB 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKLOQFOKEDAAITII 60

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYGRILHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 3
US-09-648-569A-2
; Sequence 2, Application US/09648569A
; Patent No. 6531122
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us810
; CURRENT APPLICATION NUMBER: US/09/648,569A
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-648-569A-2

Query Match          96.1%; Score 832; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.9e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKLOQFOKEDAAITII 60
DB 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKLOQFOKEDAAITII 60

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYGRILHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 4
US-09-971-843-7
; Sequence 7, Application US/09971843
; Patent No. 6544505
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
```

```
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match          96.1%; Score 832; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.9e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKLOQFOKEDAAITII 60
DB 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKLOQFOKEDAAITII 60

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYGRILHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 5
US-09-403-532E-1
; Sequence 1, Application US/09403532E
; Patent No. 6572853
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Maschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/09/403,532E
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-403-532E-1

Query Match          96.1%; Score 832; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.9e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKLOQFOKEDAAITII 60
DB 1 MSYNLLGFLQSSNFQCCOKLLQWLNGLRLEYCLKDRWNFDIPEIKLOQFOKEDAAITII 60
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QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 166  
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 166

## RESULT 6

US-09-462-941-5  
; Sequence 5, Application US/09462941  
; Patent No. 6608183  
; GENERAL INFORMATION:  
; APPLICANT: Cox III, George N.  
; APPLICANT: Bolder Biotechnology, Inc.  
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins  
; FILE REFERENCE: 4152-1-PUS  
; CURRENT APPLICATION NUMBER: US/09/462,941  
; PRIOR FILING DATE: 2000-01-14  
; PRIOR FILING DATE: 1997-07-14  
; NUMBER OF SEQ ID NOS: 41  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-462-941-5

Query Match 96.1%; Score 832; DB 4; Length 166;  
Best Local Similarity 96.4%; Pred. No. 1.9e-83;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 1 MSYNLLGLFQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60  
DB 1 MSYNLLGLFQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60  
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 166  
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 166

## RESULT 7

5514567-4  
; Patent No. 5514567  
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,  
; TADATSUGU  
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID  
; NUMBER OF SEQUENCES: 5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/400,179  
; FILING DATE: 04-MAR-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 389,922  
; FILING DATE: 18-JUN-1982  
; APPLICATION NUMBER: 201,359  
; FILING DATE: 27-OCT-1980  
; SEQ ID NO: 4  
; LENGTH: 166  
5514567-4

Query Match 96.1%; Score 832; DB 6; Length 166;  
Best Local Similarity 96.4%; Pred. No. 1.9e-83;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 1 MSYNLLGLFQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60  
DB 1 MSYNLLGLFQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 166  
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 166

## RESULT 8

US-09-206-903A-9  
; Sequence 9, Application US/09206903A  
; Patent No. 6200780  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Jian  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Dong-Xiao  
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS  
; FILE REFERENCE: P1224-2R1  
; CURRENT APPLICATION NUMBER: US/09/206,903A  
; CURRENT FILING DATE: 1998-12-07  
; PRIOR FILING DATE: 1998-10-30  
; NUMBER OF SEQ ID NOS: 12  
; SEQ ID NO 9  
; LENGTH: 187  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-206-903A-9

Query Match 96.1%; Score 832; DB 3; Length 187;  
Best Local Similarity 96.4%; Pred. No. 2.3e-83;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 1 MSYNLLGLFQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 60  
DB 22 MSYNLLGLFQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTY 81  
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 82 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 141  
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 166  
DB 142 HLKRYGRIHLHYLKAKEYSHCAWTVIRAEILANFARIARTGYLRN 187

## RESULT 9

US-08-406-030A-30  
; Sequence 30, Application US/08406030A  
; Patent No. 6270989  
; GENERAL INFORMATION:  
; APPLICANT: Treco, Douglas A.  
; APPLICANT: Heartlein, Michael W.  
; APPLICANT: Hauge, Brian M.  
; APPLICANT: Selden, Richard F.  
; TITLE OF INVENTION: Protein Production and Delivery  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: Two Militia Drive  
; CITY: Lexington  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/08/406,030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,586
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TKT95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-030A-30

Query Match          96.1%; Score 832; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 2.3e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRWNFDIPEIKOLOQFOKEDAAALTYI 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRWNFDIPEIKOLOQFOKEDAAALTYI 81
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIALTGYLRN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIALTGYLRN 187

RESULT 10
US-09-202-122-9
; Sequence 9, Application US/09202122
; Patent No. 6299869
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2 (filed)
; CURRENT APPLICATION NUMBER: US/09/202,122
; CURRENT FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9

; APPLICATION NUMBER: US/08/406,030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,586
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TKT95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-030A-30

Query Match          96.1%; Score 832; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 2.3e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRWNFDIPEIKOLOQFOKEDAAALTYI 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRWNFDIPEIKOLOQFOKEDAAALTYI 81
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIALTGYLRN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIALTGYLRN 187

RESULT 11
US-09-206-935-7
; Sequence 7, Application US/09206935
; Patent No. 6299877
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: 11669.50US05
; CURRENT APPLICATION NUMBER: US/09/206,935
; CURRENT FILING DATE: 1998-12-07
; EARLIER APPLICATION NUMBER: 60/084,045
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7

; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-206-935-7

Query Match          96.1%; Score 832; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 2.3e-83;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRWNFDIPEIKOLOQFOKEDAAALTYI 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRWNFDIPEIKOLOQFOKEDAAALTYI 81
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIALTGYLRN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIALTGYLRN 187

RESULT 12
US-09-206-936-7
; Sequence 7, Application US/09206936A
; Patent No. 6300475
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: No. 6300475el Inteferon
; FILE REFERENCE: P1224R1
; CURRENT APPLICATION NUMBER: US/09/206,936A
; CURRENT FILING DATE: 1998-12-07
; SEQ ID NO 9
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match
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Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQOFKEDAAALTIY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQOFKEDAAALTIY 81

QY 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141

QY 121 HLKRYGRILHYLKAKYSHCAWTIVRAEILANFARIARLTGYLRN 166
DB 142 HLKRYGRILHYLKAKYSHCAWTIVRAEILANFARIARLTGYLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; PRIOR FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match
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Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQOFKEDAAALTIY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQOFKEDAAALTIY 81

QY 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141

QY 121 HLKRYGRILHYLKAKYSHCAWTIVRAEILANFARIARLTGYLRN 166
DB 142 HLKRYGRILHYLKAKYSHCAWTIVRAEILANFARIARLTGYLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF492P2

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QY	61	EMLQNI	FAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL	120
Db	82	EMLQNI	FAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL	141
QY	121	HLKRYG	RIHLHYLKAKYSHCAWTIVRAEILANFARIARLTGYLRN	166
Db	142	HLKRYG	RIHLHYLKAKYSHCAWTIVRAEILANFARIARLTGYLRN	187

Search completed: May 19, 2004, 14:26:15  
Job time : 13.8 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds  
(without alignments)  
1391.307 Million cell updates/sec

Title: US-09-832-659A-59

Perfect score: 856

Sequence: 1 MSYNLLGFLQSSNFQCKL.....RASILANFARIALTGYLRN 166

Scoring table:

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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11: /cgn2\_6/ptodata/2/pubaa/US09C\_PUBCOMB.pep.\*  
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18: /cgn2\_6/ptodata/2/pubaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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1	845	97.6	166	10	US-09-832-658-24
2	832	96.1	166	10	US-09-832-658-24
3	832	96.1	166	12	US-09-832-658-24
4	832	96.1	166	14	US-09-832-658-24
5	832	96.1	166	14	US-09-832-658-24
6	832	96.1	166	14	US-09-832-658-24
7	832	96.1	166	14	US-09-832-658-24
8	832	96.1	166	14	US-09-832-658-24
9	832	96.1	166	14	US-09-832-658-24
10	832	96.1	166	14	US-09-832-658-24
11	832	96.1	166	14	US-09-832-658-24
12	832	96.1	166	14	US-09-832-658-24
13	832	96.1	166	15	US-09-832-658-24
14	832	96.1	166	16	US-09-832-658-24
15	832	96.1	183	9	US-09-832-659-4

16 832 96.1 183 10 US-09-832-658-24 Sequence 2, Appli  
17 832 96.1 186 12 US-10-449-831A-146 Sequence 146, App  
18 832 96.1 187 9 US-09-788-552-1 Sequence 1, Appli  
19 832 96.1 187 9 US-09-919-622A-9 Sequence 9, Appli  
20 832 96.1 187 12 US-10-411-037-6 Sequence 6, Appli  
21 832 96.1 187 12 US-09-881-050-17 Sequence 17, Appli  
22 832 96.1 187 12 US-10-411-026-6 Sequence 6, Appli  
23 832 96.1 187 13 US-10-004-201-2 Sequence 2, Appli  
24 832 96.1 187 14 US-10-096-373-2 Sequence 2, Appli  
25 832 96.1 187 14 US-10-418-038-9 Sequence 9, Appli  
26 832 96.1 187 16 US-10-410-962-6 Sequence 6, Appli  
27 832 96.1 187 16 US-10-411-049-6 Sequence 6, Appli  
28 832 96.1 199 12 US-09-766-320B-11 Sequence 11, Appli  
29 832 96.1 234 12 US-10-449-831A-192 Sequence 2, Appli  
30 832 96.1 399 9 US-09-832-659-2 Sequence 2, Appli  
31 830 95.8 166 12 US-10-035-420-1 Sequence 1, Appli  
32 830 95.8 166 12 US-10-010-448-1 Sequence 1, Appli  
33 829 95.7 187 9 US-09-927-850-7 Sequence 7, Appli  
34 825 95.3 166 9 US-09-788-552-2 Sequence 2, Appli  
35 823 95.0 418 9 US-09-832-659-42 Sequence 42, Appli  
36 823 95.0 423 9 US-09-832-659-44 Sequence 44, Appli  
37 822 94.9 166 14 US-10-246-932-2 Sequence 2, Appli  
38 821 94.8 166 15 US-10-168-956A-1 Sequence 1, Appli  
39 820 94.7 166 12 US-10-035-420-2 Sequence 2, Appli  
40 820 94.7 166 12 US-10-010-448-2 Sequence 2, Appli  
41 792 91.5 166 14 US-10-449-456-23 Sequence 23, Appli  
42 792 91.5 166 16 US-10-448-667-23 Sequence 23, Appli  
43 792 91.5 187 9 US-09-725-433-4 Sequence 4, Appli  
44 792 91.5 187 14 US-10-284-740-12 Sequence 12, Appli  
45 787 90.9 166 14 US-10-084-706-56 Sequence 56, Appli

#### ALIGNMENTS

#### RESULT 1

US-09-832-658-24  
; Sequence 24, Application US/09832658  
; Publication No. US20030021765A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; APPLICANT: Pepinsky, Blake  
; APPLICANT: Runkel, Laura  
; APPLICANT: Brickelmaier, Margot  
; APPLICANT: Whitty, Adrian  
; APPLICANT: Hochman, Paula  
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a  
; TITLE OF INVENTION: and Uses  
; FILE REFERENCE: A065PCT  
; CURRENT APPLICATION NUMBER: US/09/832,658  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/104,572  
; PRIOR FILING DATE: 1998-10-16  
; PRIOR APPLICATION NUMBER: 60/120,161  
; PRIOR FILING DATE: 1999-02-16  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: human  
US-09-832-658-24

Query Match 97.6%; Score 845; DB 10; Length 166;  
Best Local Similarity 97.6%; Pred. No. 2.8e-79;  
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLWQLNGRLEYCLKDRMFDIPEEIKQLOQFOKEDAAITY 60  
Db 1 MSYNLLGFLQSSNFQCKLWQLNGRLEYCLKDRMFDIPEEIKQLOQFOKEDAAITY 60  
QY 61 ENLQNIFFAIFRODSSSTGWNETIVENLLANYVQHNLKTVLEKLEKEDFTRGALMSL 120

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Db 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971.843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match
Best Local Similarity 96.1%; Score 832; DB 10; Length 166;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
QY 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhidas K
; APPLICANT: Shinkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732.436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT

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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match
Best Local Similarity 96.1%; Score 832; DB 12; Length 166;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
QY 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorraine
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PPI8399.002
; CURRENT APPLICATION NUMBER: US/10/246.932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match
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Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60
QY 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTVRAEILANFARIARLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186.962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30

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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US2003016685A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N

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; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTYI 60
DB 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQFQKEDAAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsg+rd
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:

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; NAME/KEY: CHAIN
; LOCATION: (1)....(166)
; OTHER INFORMATION: h1FNB mature sequence
US-10-084-706-2

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQOQFQKEDAAITY 60
QY 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
DB 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQOQFQKEDAAITY 60
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QY 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
DB 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQOQFQKEDAAITY 60
QY 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
DB 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQOQFQKEDAAITY 60
QY 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
DB 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANYVHQNHLKTVLEBKLEKEDPTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US2003018686A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
```

```
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYIY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYIY 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalgard
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFNB mature sequence
US-10-609-296-2

Query Match          96.1%; Score 832; DB 15; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYIY 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          96.1%; Score 832; DB 16; Length 166;
Best Local Similarity 96.4%; Pred. No. 6.1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYIY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYIY 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRAEILANFARIARLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US20020155547A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses  
; FILE REFERENCE: A064PCTSEQ  
; CURRENT APPLICATION NUMBER: US/09/832,659  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/120,237  
; PRIOR FILING DATE: 1999-02-16  
; PRIOR APPLICATION NUMBER: 60/104,491  
; PRIOR FILING DATE: 1998-10-16  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 183  
; TYPE: PRT  
; ORGANISM: murine  
; US-09-832-659-4

Query Match 96.1%; Score 832; DB 9; Length 183;  
Best Local Similarity 96.4%; Pred. No. 7e-78;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
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Db 18 MSYNLLGFLQSSNFCCOKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQFOKEDALTYI 77  
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db 78 EMLQNIFAIFRODSSSTGNETIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 137  
QY 121 HLKRYYGRIHLHYLKAKESHCAWTIVRAEILANFARIARLTGYLRN 166  
Db 138 HLKRYYGRIHLHYLKAKESHCAWTIVRVEILRNFFYNRLTGYLNRN 183

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Job time : 34.2 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds  
(without alignments)  
1391.307 Million cell updates/sec

Title: US-09-832-659A-58

Perfect score: 868

Sequence: 1 MSYNLLGLQSSNFQCKL.....RVEILNFYINRLTGVLN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

- 1: /cgn2\_6/ptodata/2/pubaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/2/pubaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/2/pubaa/US06\_PUBCOMB.pep.\*
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- 18: /cgn2\_6/ptodata/2/pubaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	859	99.0	166	10	US-09-832-658-24
2	846	97.5	166	10	US-09-971-843-7
3	846	97.5	166	12	US-09-732-436-16
4	846	97.5	166	14	US-10-246-932-1
5	846	97.5	166	14	US-10-186-962-1
6	846	97.5	166	14	US-10-400-377-5
7	846	97.5	166	14	US-10-400-708-5
8	846	97.5	166	14	US-10-084-706-2
9	846	97.5	166	14	US-10-298-148-5
10	846	97.5	166	14	US-10-325-720-2
11	846	97.5	166	14	US-10-351-189-2
12	846	97.5	166	14	US-10-449-456-1
13	846	97.5	166	15	US-10-609-296-2
14	846	97.5	166	16	US-10-448-667-1
15	846	97.5	183	9	US-09-832-659-4

16	846	97.5	183	10	US-09-832-658-2	Sequence 2, Appli
17	846	97.5	186	12	US-10-449-831A-146	Sequence 146, App
18	846	97.5	187	9	US-09-788-552-1	Sequence 1, Appli
19	846	97.5	187	9	US-09-919-622A-9	Sequence 9, Appli
20	846	97.5	187	12	US-10-411-037-6	Sequence 6, Appli
21	846	97.5	187	12	US-09-881-050-17	Sequence 17, Appli
22	846	97.5	187	12	US-10-411-026-6	Sequence 6, Appli
23	846	97.5	187	13	US-10-004-201-2	Sequence 2, Appli
24	846	97.5	187	14	US-10-096-373-2	Sequence 2, Appli
25	846	97.5	187	14	US-10-418-038-9	Sequence 9, Appli
26	846	97.5	187	16	US-10-410-962-6	Sequence 6, Appli
27	846	97.5	187	16	US-10-411-049-6	Sequence 6, Appli
28	846	97.5	199	12	US-09-766-920B-11	Sequence 11, Appli
29	846	97.5	234	12	US-10-449-831A-192	Sequence 192, App
30	846	97.5	399	9	US-09-832-659-2	Sequence 2, Appli
31	844	97.2	166	12	US-10-035-420-1	Sequence 1, Appli
32	844	97.2	166	12	US-10-010-448-1	Sequence 1, Appli
33	843	97.1	187	9	US-09-927-850-7	Sequence 7, Appli
34	839	96.7	166	9	US-09-788-552-2	Sequence 2, Appli
35	837	96.4	418	9	US-09-832-659-42	Sequence 42, Appli
36	837	96.4	423	9	US-09-832-659-44	Sequence 44, Appli
37	836	96.3	166	14	US-10-246-932-2	Sequence 2, Appli
38	835	96.2	166	15	US-10-168-956A-1	Sequence 1, Appli
39	834	96.1	166	12	US-10-035-420-2	Sequence 2, Appli
40	834	96.1	166	12	US-10-010-448-2	Sequence 2, Appli
41	822	93.5	166	10	US-09-832-658-28	Sequence 28, Appli
42	806	92.9	166	14	US-10-449-456-23	Sequence 23, Appli
43	806	92.9	166	16	US-10-448-667-23	Sequence 23, Appli
44	806	92.9	187	9	US-09-725-433-4	Sequence 4, Appli
45	806	92.9	187	14	US-10-284-740-12	Sequence 12, Appli

ALIGNMENTS

RESULT 1

US-09-832-658-24  
; Sequence 24, Application US/09832658  
; Publication No. US20030021765A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; APPLICANT: Pepinsky, Blake  
; APPLICANT: Runkel, Laura  
; APPLICANT: Brickelmaier, Margot  
; APPLICANT: Whitty, Adrian  
; APPLICANT: Hochman, Paula  
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a  
; FILE REFERENCE: A065PCT  
; CURRENT APPLICATION NUMBER: US/09/832,658  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/104,572  
; PRIOR FILING DATE: 1998-10-16  
; PRIOR APPLICATION NUMBER: 60/120,161  
; PRIOR FILING DATE: 1999-02-16  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: human  
US-09-832-658-24

Query Match 99.0%; Score 859; DB 10; Length 166;  
Best Local Similarity 98.8%; Pred. No. 2.6e-81;  
Matches 164; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY	1	MSYNLLGLQSSNFQCKLWQLNGRLLEYCLKDMNFDIPEEIKQLQOQKEDAAITY	60
Db	1	MSYNLLGLQSSNFQCKLWQLNGRLLEYCLKDMNFDIPEEIKQLQOQKEDAAITY	60
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Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Qy      121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILNFYRINRLTGYLRN 166
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Db      121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Konklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match      97.5%; Score 846; DB 10; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy      1 MSYNLLGFLQRSSNFQCKLLQWLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYI 60
Db      1 MSYNLLGFLQRSSNFQCKLLQWLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYI 60

Qy      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120

Qy      121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILNFYRINRLTGYLRN 166
Db      121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Suhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; PRIOR FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT

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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match      97.5%; Score 846; DB 12; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy      1 MSYNLLGFLQRSSNFQCKLLQWLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYI 60
Db      1 MSYNLLGFLQRSSNFQCKLLQWLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYI 60

Qy      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120

Qy      121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILNFYRINRLTGYLRN 166
Db      121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorianne
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PFI9399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match      97.5%; Score 846; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy      1 MSYNLLGFLQRSSNFQCKLLQWLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYI 60
Db      1 MSYNLLGFLQRSSNFQCKLLQWLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTYI 60

Qy      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120

Qy      121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILNFYRINRLTGYLRN 166
Db      121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; PRIOR FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30

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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          97.5%; Score 846; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLHYLKAKEYAACAWTIVRVEILRNRYINRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/10/400,377
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          97.5%; Score 846; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLHYLKAKEYAACAWTIVRVEILRNRYINRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US20030168663A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
```

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; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          97.5%; Score 846; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLHYLKAKEYAACAWTIVRVEILRNRYINRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalesg-rd
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORNS, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228ue410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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NAME/KEY: CHAIN  
LOCATION: (1)...(166)  
OTHER INFORMATION: h1FNb mature sequence  
US-10-084-706-2

Query Match 97.5%; Score 846; DB 14; Length 166;  
Best Local Similarity 97.6%; Pred. No. 6e-80;  
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60  
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60  
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILNRYFIRNLTGYLRN 166  
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166

RESULT 9  
US-10-298-148-5  
Sequence 5, Application US/10298148  
Publication No. US20030171284A1  
GENERAL INFORMATION:  
APPLICANT: Cox III, George N  
TITLE OF INVENTION: Bolder Biotechnology, Inc.  
FILE REFERENCE: 4152-1-PUS  
CURRENT APPLICATION NUMBER: US/10/298,148  
CURRENT FILING DATE: 2002-11-15  
PRIOR APPLICATION NUMBER: US/09/462,941  
PRIOR FILING DATE: 2000-01-14  
PRIOR APPLICATION NUMBER: 60/052,516  
PRIOR FILING DATE: 1997-07-14  
NUMBER OF SEQ ID NOS: 41  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 5  
LENGTH: 166  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-298-148-5

Query Match 97.5%; Score 846; DB 14; Length 166;  
Best Local Similarity 97.6%; Pred. No. 6e-80;  
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60  
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60  
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILNRYFIRNLTGYLRN 166  
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166

RESULT 10  
US-10-325-720-2  
Sequence 2, Application US/10325720  
Publication No. US20030175240A1  
GENERAL INFORMATION:  
APPLICANT: Pedersen, A.H., et al.  
TITLE OF INVENTION: Interferon-Beta Variants and Conjugates  
FILE REFERENCE: 0202us820  
CURRENT APPLICATION NUMBER: US/10/325,720  
CURRENT FILING DATE: 2002-12-19

PRIOR APPLICATION NUMBER: US 09/648,569  
PRIOR FILING DATE: 2000-08-25  
NUMBER OF SEQ ID NOS: 45  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 2  
LENGTH: 166  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-325-720-2

Query Match 97.5%; Score 846; DB 14; Length 166;  
Best Local Similarity 97.6%; Pred. No. 6e-80;  
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60  
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60  
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILNRYFIRNLTGYLRN 166  
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166

RESULT 11  
US-10-351-189-2  
Sequence 2, Application US/10351189  
Publication No. US20030175241A1  
GENERAL INFORMATION:  
APPLICANT: Pedersen, A.H., et al.  
APPLICANT: Maxysen Aps  
TITLE OF INVENTION: Interferon-Beta Variants and Conjugates  
FILE REFERENCE: 0202us830  
CURRENT APPLICATION NUMBER: US/10/351,189  
CURRENT FILING DATE: 2003-01-24  
PRIOR APPLICATION NUMBER: US 09/648,569  
PRIOR FILING DATE: 2000-08-25  
NUMBER OF SEQ ID NOS: 45  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 2  
LENGTH: 166  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-351-189-2

Query Match 97.5%; Score 846; DB 14; Length 166;  
Best Local Similarity 97.6%; Pred. No. 6e-80;  
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60  
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60  
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILNRYFIRNLTGYLRN 166  
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166

RESULT 12  
US-10-449-456-1  
Sequence 1, Application US/10449456  
Publication No. US2003018686A1  
GENERAL INFORMATION:  
APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan  
APPLICANT: Schneider-Presenius, Christian  
APPLICANT: Otto, Bernd

```
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          97.5%; Score 846; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILRNFRINLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalgard
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORNES, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228ue410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFNB mature sequence
US-10-609-296-2

Query Match          97.5%; Score 846; DB 15; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILRNFRINLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Preesenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          97.5%; Score 846; DB 16; Length 166;
Best Local Similarity 97.6%; Pred. No. 6e-80;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYAACAWTIVRVEILRNFRINLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US2002015547A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses  
; FILE REFERENCE: A064PCTSEQ  
; CURRENT APPLICATION NUMBER: US/09/832,659  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/120,237  
; PRIOR FILING DATE: 1999-02-16  
; PRIOR APPLICATION NUMBER: 60/104,491  
; PRIOR FILING DATE: 1998-10-16  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 183  
; TYPE: PRT  
; ORGANISM: murine  
US-09-832-659-4

Query Match 97.5%; Score 846; DB 9; Length 183;  
Best Local Similarity 97.6%; Pred. No. 6.8e-80;  
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;  
  
QY 1 MSYNLLGFLQSSNFCCQKLLWQLNGRLEYCLKDRMNFDPPEEKQLQQFOKEDAAITY 60  
Db |||||  
18 MSYNLLGFLQSSNFCCQKLLWQLNGRLEYCLKDRMNFDPPEEKQLQQFOKEDAAITY 77  
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db |||||  
78 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 137  
QY 121 HLKRYVGRILHYLKAKKEYAACAWTIVRVEILLNFYRINRLTGYLRLN 166  
Db |||||  
138 HLKRYVGRILHYLKAKKEYSHCAWTIVRVEILLNFYRINRLTGYLRLN 183

Search completed: May 19, 2004, 15:20:02  
Job time : 33.2 secs

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# OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 seconds  
(without alignments)  
669.524 Million cell updates/sec

Title: US-09-832-659A-58

Perfect score: 888  
Sequence: 1 MSYNLLGLFQSSNFQCKL.....RVBLRNFRINRLTGYLRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/PTUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	846	97.5	166	4	US-09-397-992A-7
2	846	97.5	166	4	US-09-569-722A-1
3	846	97.5	166	4	US-09-648-569A-2
4	846	97.5	166	4	US-09-971-843-7
5	846	97.5	166	4	US-09-403-532E-1
6	846	97.5	166	4	US-09-462-941-5
7	846	97.5	166	6	5514567-4
8	846	97.5	187	3	US-09-206-903A-9
9	846	97.5	187	3	US-09-406-030A-30
10	846	97.5	187	3	US-09-202-122-9
11	846	97.5	187	3	US-09-206-935-7
12	846	97.5	187	4	US-09-206-936-7
13	846	97.5	187	4	US-09-487-792-4
14	846	97.5	187	4	US-09-908-594-4
15	846	97.5	187	4	US-09-919-622A-9
16	846	97.5	187	6	5514567-1
17	846	97.5	415	4	US-09-215-212-14
18	846	97.2	166	2	US-08-477-310A-1
19	841	96.9	166	1	US-08-213-448-1
20	841	96.9	166	3	US-08-912-768-1
21	841	96.9	166	4	US-09-569-722A-4
22	841	96.9	166	4	US-09-569-722A-18
23	841	96.9	166	5	PCT-US95-03206-1
24	841	96.9	187	3	US-08-912-768-3
25	839	96.7	166	4	US-09-487-792-21
26	839	96.7	166	4	US-09-908-594-21
27	838	96.5	187	1	US-08-026-758-22

28 837 96.4 166 4 US-09-331-260-2 Sequence 2, Appli  
29 836 96.3 166 4 US-09-569-722A-5 Sequence 5, Appli  
30 829 95.5 187 6 5326859-1 Patent No. 5326859  
31 827 95.3 166 4 US-09-569-722A-13 Sequence 13, Appl  
32 827 95.3 166 4 US-09-569-722A-19 Sequence 19, Appl  
33 822 94.7 166 4 US-09-569-722A-8 Sequence 8, Appl  
34 822 94.7 166 4 US-09-569-722A-16 Sequence 16, Appl  
35 820 94.5 166 4 US-09-569-722A-6 Sequence 6, Appl  
36 819 94.4 166 4 US-09-569-722A-24 Sequence 24, Appl  
37 817 94.1 166 4 US-09-569-722A-14 Sequence 14, Appl  
38 816 94.0 166 4 US-09-569-722A-7 Sequence 7, Appl  
39 816 94.0 166 4 US-09-569-722A-12 Sequence 12, Appl  
40 816 94.0 166 4 US-09-569-722A-17 Sequence 17, Appl  
41 815 93.9 166 4 US-09-569-722A-22 Sequence 22, Appl  
42 814 93.8 166 4 US-09-569-722A-15 Sequence 15, Appl  
43 811 93.4 166 4 US-09-569-722A-20 Sequence 20, Appl  
44 810 93.3 166 4 US-09-569-722A-11 Sequence 11, Appl  
45 809 93.2 166 4 US-09-569-722A-23 Sequence 23, Appl

## ALIGNMENTS

### RESULT 1

US-09-397-992A-7

; Sequence 7, Application US/09397992A

; Patent No. 6329175

; GENERAL INFORMATION:

; APPLICANT: Conklin, Darrell

; APPLICANT: Grant, Francis J.

; APPLICANT: Rixon, Mark W.

; APPLICANT: Kindvogel, Wayne

; TITLE OF INVENTION: Interferon-epsilon

; FILE REFERENCE: 98-46

; CURRENT APPLICATION NUMBER: US/09/397,992A

; PRIOR FILING DATE: 1999-09-16

; PRIOR APPLICATION NUMBER: 60/101,012

; PRIOR FILING DATE: 1998-09-18

; PRIOR APPLICATION NUMBER: 60/118,578

; PRIOR FILING DATE: 1999-02-05

; PRIOR APPLICATION NUMBER: 60/142,766

; PRIOR FILING DATE: 1999-07-08

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 7

; LENGTH: 166

; TYPE: PPT

; ORGANISM: Homo sapiens

; US-09-397-992A-7

Query Match 97.5%; Score 846; DB 4; Length 166;  
Best Local Similarity 97.6%; Pred. No. 1.3e-85;  
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGLFQSSNFQCKLLQNLGRLEYCLKDRNFDPDEEIKLOQFOKEDAAITY 60  
DB 1 MSYNLLGLFQSSNFQCKLLQNLGRLEYCLKDRNFDPDEEIKLOQFOKEDAAITY 60  
QY 61 EMLQNIPIAFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIPIAFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYIGRILHYLKAKYAAACAWTVRVEILNFRINRLTGYLRN 166

DB 121 HLKRYIGRILHYLKAKYSHCAWTVRVEILNFRINRLTGYLRN 166

### RESULT 2

US-09-569-722A-1

; Sequence 1, Application US/09569722A

; Patent No. 6514729

; GENERAL INFORMATION:

; APPLICANT: Bentzien, Joerg M

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/ TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
/ FILE REFERENCE: A-68059-1/RFT/RMS/RMK
/ CURRENT APPLICATION NUMBER: US/09/569,722A
/ CURRENT FILING DATE: 2000-05-11
/ PRIOR APPLICATION NUMBER: US 60/133,785
/ PRIOR FILING DATE: 1999-03-12
/ NUMBER OF SEQ ID NOS: 24
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 1
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match          97.5%; Score 846; DB 4; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.3e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 60

QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAEYAAACAWTIVRVEILNFRINRLTGYLNL 166
DB 121 HLKRYVGRILHYLKAEYSHCAWTIVRVEILNFRINRLTGYLNL 166

RESULT 3
US-09-648-569A-2
/ Sequence 2, Application US/09648569A
/ Patent No. 6531122
/ GENERAL INFORMATION:
/ APPLICANT: Pedersen, A.H., et al.
/ APPLICANT: Maxygen Aps
/ TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
/ FILE REFERENCE: 0202us810
/ CURRENT APPLICATION NUMBER: US/09/648,569A
/ CURRENT FILING DATE: 2000-08-25
/ NUMBER OF SEQ ID NOS: 45
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 2
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-648-569A-2

Query Match          97.5%; Score 846; DB 4; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.3e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 60

QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAEYAAACAWTIVRVEILNFRINRLTGYLNL 166
DB 121 HLKRYVGRILHYLKAEYSHCAWTIVRVEILNFRINRLTGYLNL 166

RESULT 4
US-09-971-843-7
/ Sequence 7, Application US/09971843
/ Patent No. 6544505
/ GENERAL INFORMATION:
/ APPLICANT: Conklin, Darrell C.
```

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/ APPLICANT: Grant, Francis J.
/ APPLICANT: Rixon, Mark W.
/ APPLICANT: Kindesvogel, Wayne
/ TITLE OF INVENTION: Interferon-epsilon
/ FILE REFERENCE: 98-46D1
/ CURRENT APPLICATION NUMBER: US/09/971,843
/ CURRENT FILING DATE: 2001-10-04
/ PRIOR APPLICATION NUMBER: 60/101,012
/ PRIOR FILING DATE: 1998-09-18
/ PRIOR APPLICATION NUMBER: 60/118,578
/ PRIOR FILING DATE: 1999-02-05
/ PRIOR APPLICATION NUMBER: 60/142,766
/ PRIOR FILING DATE: 1999-07-08
/ PRIOR APPLICATION NUMBER: 09/397,992
/ PRIOR FILING DATE: 1999-09-16
/ NUMBER OF SEQ ID NOS: 33
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 7
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-971-843-7

Query Match          97.5%; Score 846; DB 4; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.3e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 60

QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAEYAAACAWTIVRVEILNFRINRLTGYLNL 166
DB 121 HLKRYVGRILHYLKAEYSHCAWTIVRVEILNFRINRLTGYLNL 166

RESULT 5
US-09-403-532E-1
/ Sequence 1, Application US/09403532E
/ Patent No. 6572853
/ GENERAL INFORMATION:
/ APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
/ APPLICANT: Schneider-Presenius, Christian
/ APPLICANT: Otto, Bernd
/ APPLICANT: Maschutza, Gero
/ TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
/ FILE REFERENCE: 127-65050
/ CURRENT APPLICATION NUMBER: US/09/403,532E
/ CURRENT FILING DATE: 2000-02-22
/ PRIOR APPLICATION NUMBER: PCT/EP/98/02238
/ PRIOR FILING DATE: 1998-04-16
/ PRIOR APPLICATION NUMBER: DE 19717866.2
/ PRIOR FILING DATE: 1997-04-23
/ NUMBER OF SEQ ID NOS: 26
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 1
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-403-532E-1

Query Match          97.5%; Score 846; DB 4; Length 166;
Best Local Similarity 97.6%; Pred. No. 1.3e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITTY 60
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QY 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYGRIHLHYLKAKEYAACAWTIIVRVEILNRYFNRLTGYLRN 166  
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIIVRVEILNRYFNRLTGYLRN 166

## RESULT 6

US-09-462-941-5  
; Sequence 5, Application US/09462941  
; Patent No. 6608183

GENERAL INFORMATION:  
; APPLICANT: Cox III, George N

; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins  
; FILE REFERENCE: 4152-1-FUS

; CURRENT APPLICATION NUMBER: US/09/462,941  
; CURRENT FILING DATE: 2000-01-14

; PRIOR APPLICATION NUMBER: 60/052,516  
; PRIOR FILING DATE: 1997-07-14

; NUMBER OF SEQ ID NOS: 41  
; SOFTWARE: Patent in Ver. 2.0

; SEQ ID NO 5  
; LENGTH: 166

; TYPE: PRT  
; ORGANISM: Homo sapiens

US-09-462-941-5

Query Match 97.5%; Score 846; DB 4; Length 166;  
Best Local Similarity 97.6%; Pred. No. 1.3e-85;

Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQKEDAAITY 60  
DB 1 MSYNLLGFLQRSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQKEDAAITY 60

QY 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLHYLKAKEYAACAWTIIVRVEILNRYFNRLTGYLRN 166  
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIIVRVEILNRYFNRLTGYLRN 166

## RESULT 7

5514567-4

; Patent No. 5514567

; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI, TADATSUGU

; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID

; NUMBER OF SEQUENCES: 5  
; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/400,179  
; FILING DATE: 06-MAR-1995

; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 389,922

; FILING DATE: 18-JUN-1982  
; APPLICATION NUMBER: 201,359

; FILING DATE: 27-OCT-1980  
; SEQ ID NO: 4

; LENGTH: 166  
5514567-4

Query Match 97.5%; Score 846; DB 6; Length 166;  
Best Local Similarity 97.6%; Pred. No. 1.3e-85;

Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQKEDAAITY 60  
DB 1 MSYNLLGFLQRSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQKEDAAITY 60

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; APPLICATION NUMBER: US/08/406,030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,586
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TKT95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-030A-30

Query Match          97.5%; Score 846; DB 3; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.6e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKKEYAACAWTIVRVEILRNFRINLTGYLRN 166
DB 142 HLKRYVGRILHYLKKEYSHCAWTIVRVEILRNFRINLTGYLRN 187

RESULT 10
US-09-202-122-9
; Sequence 9, Application US/09202122
; Patent No. 6299869
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2 (filed)
; CURRENT APPLICATION NUMBER: US/09/202,122
; CURRENT FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9

; APPLICATION NUMBER: US/08/406,030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,586
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TKT95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-030A-30

Query Match          97.5%; Score 846; DB 3; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.6e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKKEYAACAWTIVRVEILRNFRINLTGYLRN 166
DB 142 HLKRYVGRILHYLKKEYSHCAWTIVRVEILRNFRINLTGYLRN 187

RESULT 11
US-09-206-935-7
; Sequence 7, Application US/09206935
; Patent No. 6299877
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: 11669.50US05
; CURRENT APPLICATION NUMBER: US/09/206,935
; CURRENT FILING DATE: 1998-12-07
; EARLIER APPLICATION NUMBER: 60/084,045
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-206-935-7

Query Match          97.5%; Score 846; DB 3; Length 187;
Best Local Similarity 97.8%; Pred. No. 1.6e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKKEYAACAWTIVRVEILRNFRINLTGYLRN 166
DB 142 HLKRYVGRILHYLKKEYSHCAWTIVRVEILRNFRINLTGYLRN 187

RESULT 12
US-09-206-936-7
; Sequence 7, Application US/09206936A
; Patent No. 6300475
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: No. 6300475el Interferon
; FILE REFERENCE: P1224R1
; CURRENT APPLICATION NUMBER: US/09/206,936A
; CURRENT FILING DATE: 1998-12-07
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match          97.5%; Score 846; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.6e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTY 81

QY 61 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 141

QY 121 HLKRYGRIHLKAKYAAACAWTIVRVEILRNFRINLTGYLRN 166
Db 142 HLKRYGRIHLKAKYSHCAWTIVRVEILRNFRINLTGYLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          97.5%; Score 846; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.6e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTY 81

QY 61 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 141

QY 121 HLKRYGRIHLKAKYAAACAWTIVRVEILRNFRINLTGYLRN 166
Db 142 HLKRYGRIHLKAKYSHCAWTIVRVEILRNFRINLTGYLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match          97.5%; Score 846; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.6e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTY 81

QY 61 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 141

QY 121 HLKRYGRIHLKAKYAAACAWTIVRVEILRNFRINLTGYLRN 166
Db 142 HLKRYGRIHLKAKYSHCAWTIVRVEILRNFRINLTGYLRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match          97.5%; Score 846; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.6e-85;
Matches 162; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTY 81
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Qy	121	HLKRY	YGR	ILH	Y	L	K	A	K	E	Y	A	A	C	A	W	T	I	V	R	V	E	I	L	N	F	N	F	I	N	R	L	T	G	Y	L	R	N	166							
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Search completed: May 19, 2004, 14:26:14  
Job time : 12.8 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 Seconds  
(without alignments)  
669.524 Million cell updates/sec

Title: US-09-832-659A-57

Perfect score: 870

Sequence: 1 MSYNLLGLQSSNFQCKL.....RVEILRNFVRINLTGYLRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.\*

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- 2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep.\*
- 3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*
- 4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*
- 5: /cgn2\_6/ptodata/2/iaa/PCTUS\_COMB.pep.\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	847	97.4	166	4	US-09-397-992A-7
2	847	97.4	166	4	US-09-569-722A-1
3	847	97.4	166	4	US-09-648-569A-2
4	847	97.4	166	4	US-09-971-843-7
5	847	97.4	166	4	US-09-403-532E-1
6	847	97.4	166	4	US-09-482-941-5
7	847	97.4	166	6	5514567-4
8	847	97.4	187	3	US-09-206-903A-9
9	847	97.4	187	3	US-08-406-030A-30
10	847	97.4	187	3	US-09-202-122-9
11	847	97.4	187	3	US-09-206-935-7
12	847	97.4	187	4	US-09-206-936-7
13	847	97.4	187	4	US-09-487-792-4
14	847	97.4	187	4	US-09-908-594-4
15	847	97.4	187	4	US-09-919-622A-9
16	847	97.4	187	6	5514567-1
17	847	97.4	415	4	US-09-215-212-14
18	845	97.1	166	2	US-08-477-310A-1
19	842	96.8	166	1	US-08-213-448-1
20	842	96.8	166	3	US-08-912-768-1
21	842	96.8	166	4	US-09-569-722A-4
22	842	96.8	166	4	US-09-569-722A-18
23	842	96.8	166	5	PCT-US95-03206-1
24	842	96.8	187	3	US-08-912-768-3
25	840	96.6	166	4	US-09-487-792-21
26	840	96.6	166	4	US-09-908-594-21
27	839	96.4	187	1	US-08-026-758-22

28	838	96.3	166	4	US-09-331-260-2	Sequence 2, Appli
29	837	96.2	166	4	US-09-569-722A-5	Sequence 5, Appli
30	830	95.4	187	6	5326859-1	Patent No. 5326859
31	828	95.2	166	4	US-09-569-722A-13	Sequence 13, Appl
32	828	95.2	166	4	US-09-569-722A-19	Sequence 19, Appl
33	823	94.6	166	4	US-09-569-722A-8	Sequence 8, Appli
34	823	94.6	166	4	US-09-569-722A-16	Sequence 16, Appl
35	821	94.4	166	4	US-09-569-722A-6	Sequence 6, Appli
36	820	94.3	166	4	US-09-569-722A-24	Sequence 24, Appl
37	818	94.0	166	4	US-09-569-722A-14	Sequence 14, Appl
38	817	93.9	166	4	US-09-569-722A-7	Sequence 7, Appli
39	817	93.9	166	4	US-09-569-722A-12	Sequence 12, Appl
40	816	93.8	166	4	US-09-569-722A-17	Sequence 17, Appl
41	816	93.8	166	4	US-09-569-722A-22	Sequence 22, Appl
42	815	93.7	166	4	US-09-569-722A-15	Sequence 15, Appl
43	812	93.3	166	4	US-09-569-722A-20	Sequence 20, Appl
44	811	93.2	166	4	US-09-569-722A-11	Sequence 11, Appl
45	810	93.1	166	4	US-09-569-722A-23	Sequence 23, Appl

#### ALIGNMENTS

##### RESULT 1

US-09-397-992A-7

; Sequence 7, Application US/09397992A

; Patent No. 6329175

; GENERAL INFORMATION:

; APPLICANT: Conklin, Darrell

; APPLICANT: Grant, Francis J.

; APPLICANT: Rixon, Mark W.

; TITLE OF INVENTION: Interferon-epsilon

; FILE REFERENCE: 98-46

; CURRENT APPLICATION NUMBER: US/09/397,992A

; PRIOR FILING DATE: 1999-09-16

; PRIOR APPLICATION NUMBER: 60/101,012

; PRIOR FILING DATE: 1998-09-16

; PRIOR APPLICATION NUMBER: 60/118,578

; PRIOR FILING DATE: 1999-02-05

; PRIOR APPLICATION NUMBER: 60/142,766

; PRIOR FILING DATE: 1999-07-08

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 7

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-397-992A-7

Query Match 97.4%; Score 847; DB 4; Length 166;  
Best Local Similarity 97.6%; Pred. No. 1.4e-84; Indels 0; Gaps 0;  
Matches 162; Conservative 0; Mismatches 4;

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Db 1 MSYNLLGLQSSNFQCKLLQNLGRLEYCLKDRMNFDEEIKQLQFQKEDAAITY 60

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Db 61 EMLQNFIFAIFQDSSSTGWNTEIVENLLANYHQINHLKTVLEBKLEKEDFTRGKLMSSL 120

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Db 121 HLKRYGYRLHYLKAAYSHCAWTVRVEILRNFVRINLTGYLRN 166

##### RESULT 2

US-09-569-722A-1

; Sequence 1, Application US/09569722A

; Patent No. 6514729

; GENERAL INFORMATION:

; APPLICANT: Bentzien, Joerg M

; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY  
; FILE REFERENCE: A-8059-1/RFT/RMS/RMK  
; CURRENT APPLICATION NUMBER: US/09/569,722A  
; CURRENT FILING DATE: 2000-08-11  
; PRIOR APPLICATION NUMBER: US 60/133,785  
; PRIOR FILING DATE: 1999-05-12  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-569-722A-1

Query Match 97.4%; Score 847; DB 4; Length 166;  
Best Local Similarity 97.6%; Pred. No. 1.4e-84;  
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60  
DB 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60  
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYINRLTGYLNR 166  
DB 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYINRLTGYLNR 166

## RESULT 3

US-09-648-569A-2  
; Sequence 2, Application US/09648569A  
; Patent No. 6531122  
; GENERAL INFORMATION:  
; APPLICANT: Pedersen, A.H., et al.  
; APPLICANT: Maxygen Aps  
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates  
; FILE REFERENCE: 0202u810  
; CURRENT APPLICATION NUMBER: US/09/648,569A  
; CURRENT FILING DATE: 2000-08-25  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-648-569A-2

Query Match 97.4%; Score 847; DB 4; Length 166;  
Best Local Similarity 97.6%; Pred. No. 1.4e-84;  
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYINRLTGYLNR 166  
DB 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYINRLTGYLNR 166

## RESULT 4

US-09-971-843-7  
; Sequence 7, Application US/09971843  
; Patent No. 6544505  
; GENERAL INFORMATION:  
; APPLICANT: Conklin, Darrell C.

; APPLICANT: Grant, Francis J.  
; APPLICANT: Rixon, Mark W.  
; APPLICANT: Kindsvoegel, Wayne  
; TITLE OF INVENTION: Interferon-epsilon  
; FILE REFERENCE: 98-46D1  
; CURRENT APPLICATION NUMBER: US/09/971,843  
; CURRENT FILING DATE: 2001-10-04  
; PRIOR APPLICATION NUMBER: 60/101,012  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/118,578  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/142,766  
; PRIOR FILING DATE: 1999-07-08  
; PRIOR APPLICATION NUMBER: 09/397,992  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: PastSeq for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-971-843-7

Query Match 97.4%; Score 847; DB 4; Length 166;  
Best Local Similarity 97.6%; Pred. No. 1.4e-84;  
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYINRLTGYLNR 166  
DB 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYINRLTGYLNR 166

## RESULT 5

US-09-403-532E-1  
; Sequence 1, Application US/09403532E  
; Patent No. 6572853  
; GENERAL INFORMATION:  
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan  
; APPLICANT: Schneider-Presenius, Christian  
; APPLICANT: Otto, Bernd  
; APPLICANT: Waschutzka, Gero  
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY  
; FILE REFERENCE: 127-65050  
; CURRENT APPLICATION NUMBER: US/09/403,532E  
; CURRENT FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238  
; PRIOR FILING DATE: 1998-04-16  
; PRIOR APPLICATION NUMBER: DE 19717864.2  
; PRIOR FILING DATE: 1997-04-23  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-403-532E-1

Query Match 97.4%; Score 847; DB 4; Length 166;  
Best Local Similarity 97.6%; Pred. No. 1.4e-84;  
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYFNRLTGYLRN 166  
DB 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYFNRLTGYLRN 166

## RESULT 6

US-09-462-941-5  
; Sequence 5, Application US/09462941  
; Patent No. 6608183  
; GENERAL INFORMATION:  
; APPLICANT: Cox III, George N  
; APPLICANT: Bolder Biotechnology, Inc.  
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins  
; FILE REFERENCE: 4152-1-PUS  
; CURRENT APPLICATION NUMBER: US/09/462,941  
; CURRENT FILING DATE: 2000-01-14  
; PRIOR APPLICATION NUMBER: 60/052,516  
; PRIOR FILING DATE: 1997-07-14  
; NUMBER OF SEQ ID NOS: 41  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-462-941-5

Query Match 97.4%; Score 847; DB 4; Length 166;  
Best Local Similarity 97.6%; Pred. No. 1.4e-84;  
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
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DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQIQQFQKEDAAITY 60  
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYFNRLTGYLRN 166  
DB 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYFNRLTGYLRN 166

## RESULT 7

5514567-4  
; Patent No. 5514567  
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,  
; TADATSUGU  
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID  
; NUMBER OF SEQUENCES: 5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/400,179  
; FILING DATE: 06-MAR-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 389,922  
; FILING DATE: 18-JUN-1982  
; APPLICATION NUMBER: 201,359  
; FILING DATE: 27-OCT-1980  
; SEQ ID NO: 4;  
; LENGTH: 166  
5514567-4

Query Match 97.4%; Score 847; DB 6; Length 166;  
Best Local Similarity 97.6%; Pred. No. 1.4e-84;  
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
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QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120  
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DB 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYFNRLTGYLRN 166

## RESULT 8

US-09-206-903A-9  
; Sequence 9, Application US/09206903A  
; Patent No. 6200780  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Jian  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Dong-Xiao  
; TITLE OF INVENTION: NOVEL TYPE I INTERPERONS  
; FILE REFERENCE: P1224-2R1  
; CURRENT APPLICATION NUMBER: US/09/206,903A  
; CURRENT FILING DATE: 1998-12-07  
; PRIOR APPLICATION NUMBER: US 60/106,463  
; PRIOR FILING DATE: 1998-10-30  
; NUMBER OF SEQ ID NOS: 12  
; SEQ ID NO 9  
; LENGTH: 187  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-206-903A-9

Query Match 97.4%; Score 847; DB 3; Length 187;  
Best Local Similarity 97.6%; Pred. No. 1.7e-84;  
Matches 182; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
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DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQIQQFQKEDAAITY 81  
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120  
DB 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 141  
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYFNRLTGYLRN 166  
DB 142 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYFNRLTGYLRN 187

## RESULT 9

US-08-406-030A-30  
; Sequence 30, Application US/08406030A  
; Patent No. 6270989  
; GENERAL INFORMATION:  
; APPLICANT: Treco, Douglas A.  
; APPLICANT: Heartlein, Michael W.  
; APPLICANT: Hauge, Brian W.  
; APPLICANT: Selden, Richard F  
; TITLE OF INVENTION: Protein Production and Delivery  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: Two Militia Drive  
; CITY: Lexington  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/08/406,030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,586
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TKT95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-030A-30

Query Match 97.4%; Score 847; DB 3; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.7e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSNFCQKLLMQLNGRLEYCLKDRNFDIPBEIKOLOQFOKEDAAITY 60
DB 22 MSYNLLGFLQRSNFCQKLLMQLNGRLEYCLKDRNFDIPBEIKOLOQFOKEDAAITY 81
QY 61 EMLQNIFAIPRODSSSTGWNETHVLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIPRODSSSTGWNETHVLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNFRINELTGYLRN 166
DB 142 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNFRINELTGYLRN 187

RESULT 10
US-09-202-122-9
; Sequence 9, Application US/09202122
; Patent No. 6299869
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2 (filed)
; CURRENT APPLICATION NUMBER: US/09/202,122
; CURRENT FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9

Query Match 97.4%; Score 847; DB 3; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.7e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSNFCQKLLMQLNGRLEYCLKDRNFDIPBEIKOLOQFOKEDAAITY 60
DB 22 MSYNLLGFLQRSNFCQKLLMQLNGRLEYCLKDRNFDIPBEIKOLOQFOKEDAAITY 81
QY 61 EMLQNIFAIPRODSSSTGWNETHVLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIPRODSSSTGWNETHVLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNFRINELTGYLRN 166
DB 142 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNFRINELTGYLRN 187

RESULT 11
US-09-206-935-7
; Sequence 7, Application US/09206935
; Patent No. 6299877
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: 11669.50US05
; CURRENT APPLICATION NUMBER: US/09/206,935
; CURRENT FILING DATE: 1998-12-07
; EARLIER APPLICATION NUMBER: 60/084,045
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 7

Query Match 97.4%; Score 847; DB 3; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.7e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSNFCQKLLMQLNGRLEYCLKDRNFDIPBEIKOLOQFOKEDAAITY 60
DB 22 MSYNLLGFLQRSNFCQKLLMQLNGRLEYCLKDRNFDIPBEIKOLOQFOKEDAAITY 81
QY 61 EMLQNIFAIPRODSSSTGWNETHVLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIPRODSSSTGWNETHVLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNFRINELTGYLRN 166
DB 142 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNFRINELTGYLRN 187

RESULT 12
US-09-206-936-7
; Sequence 7, Application US/09206936A
; Patent No. 6300475
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: No. 6300475el Interferon
; FILE REFERENCE: P1224R1
; CURRENT APPLICATION NUMBER: US/09/206,936A
; CURRENT FILING DATE: 1998-12-07
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match          97.4%; Score 847; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.7e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db 22 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 81
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QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
    |||||
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 141
    |||||

QY 121 HLKRYYGRIHLHYLKAAYSHCAWTIVRVEILNRYINRLTGYLNRN 166
    |||||
Db 142 HLKRYYGRIHLHYLKAAYSHCAWTIVRVEILNRYINRLTGYLNRN 187
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RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          97.4%; Score 847; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.7e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
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Db 22 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 81
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QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
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Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 141
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QY 121 HLKRYYGRIHLHYLKAAYSHCAWTIVRVEILNRYINRLTGYLNRN 166
    |||||
Db 142 HLKRYYGRIHLHYLKAAYSHCAWTIVRVEILNRYINRLTGYLNRN 187
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RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: LaFleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match          97.4%; Score 847; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.7e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
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Db 22 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 81
    |||||

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
    |||||
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 141
    |||||

QY 121 HLKRYYGRIHLHYLKAAYSHCAWTIVRVEILNRYINRLTGYLNRN 166
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Db 142 HLKRYYGRIHLHYLKAAYSHCAWTIVRVEILNRYINRLTGYLNRN 187
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RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match          97.4%; Score 847; DB 4; Length 187;
Best Local Similarity 97.6%; Pred. No. 1.7e-84;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
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Db 22 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 81
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QY 61 EMLQNI FAIFRODSSSTGWNETI VENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db |||||||  
QY 82 EMLQNI FAIFRODSSSTGWNETI VENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141  
Db |||||||  
QY 121 HLKRYGRIHLHYLKAAYSHCAWTIVRVEILLNFYRINRLTGYLRLN 166  
Db |||||||  
QY 142 HLKRYGRIHLHYLKAAYSHCAWTIVRVEILLNFYRINRLTGYLRLN 187  
Db |||||||

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Job time : 13.8 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds  
(without alignments)  
1391.307 Million cell updates/sec

Title: US-09-832-659A-57  
Perfect score: 870  
Sequence: 1 MSYNLGLFQSSNFQCKL.....RVELLENFYRNLGTGLRN 166

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US05\_NEW\_PUB.pep.\*
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- 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
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- 17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	860	98.9	166	10	US-09-832-658-24
2	847	97.4	166	10	US-09-832-658-24
3	847	97.4	166	12	US-09-732-436-16
4	847	97.4	166	14	US-10-246-932-1
5	847	97.4	166	14	US-10-186-962-1
6	847	97.4	166	14	US-10-400-377-5
7	847	97.4	166	14	US-10-084-708-5
8	847	97.4	166	14	US-10-084-708-5
9	847	97.4	166	14	US-10-298-148-5
10	847	97.4	166	14	US-10-325-720-2
11	847	97.4	166	14	US-10-351-183-2
12	847	97.4	166	14	US-10-449-456-1
13	847	97.4	166	15	US-10-609-296-2
14	847	97.4	166	16	US-10-448-667-1
15	847	97.4	183	9	US-09-832-659-4

16	847	97.4	183	10	US-09-832-658-2	Sequence 2, Appli
17	847	97.4	186	12	US-10-449-831A-146	Sequence 146, App
18	847	97.4	187	9	US-09-788-552-1	Sequence 1, Appli
19	847	97.4	187	9	US-09-919-622A-9	Sequence 9, Appli
20	847	97.4	187	12	US-10-411-037-6	Sequence 6, Appli
21	847	97.4	187	12	US-09-881-050-17	Sequence 17, Appli
22	847	97.4	187	12	US-10-411-026-6	Sequence 6, Appli
23	847	97.4	187	13	US-10-004-201-2	Sequence 2, Appli
24	847	97.4	187	14	US-10-096-373-2	Sequence 2, Appli
25	847	97.4	187	14	US-10-418-038-9	Sequence 9, Appli
26	847	97.4	187	16	US-10-410-962-6	Sequence 6, Appli
27	847	97.4	187	16	US-10-411-049-6	Sequence 6, Appli
28	847	97.4	199	12	US-09-766-920B-11	Sequence 11, Appli
29	847	97.4	234	12	US-10-449-831A-192	Sequence 192, App
30	847	97.4	399	9	US-09-832-659-2	Sequence 2, Appli
31	845	97.1	166	12	US-10-035-420-1	Sequence 1, Appli
32	845	97.1	166	12	US-10-010-448-1	Sequence 1, Appli
33	844	97.0	187	9	US-09-927-850-7	Sequence 7, Appli
34	840	96.6	166	9	US-09-788-552-2	Sequence 2, Appli
35	838	96.3	418	9	US-09-832-659-42	Sequence 42, Appli
36	838	96.3	423	9	US-09-832-659-44	Sequence 44, Appli
37	837	96.2	166	14	US-10-246-932-2	Sequence 2, Appli
38	836	96.1	166	15	US-10-168-956A-1	Sequence 1, Appli
39	835	96.0	166	12	US-10-035-420-2	Sequence 2, Appli
40	835	96.0	166	12	US-10-010-448-2	Sequence 2, Appli
41	812	93.3	166	10	US-09-832-658-27	Sequence 27, Appli
42	807	92.8	166	14	US-10-449-456-23	Sequence 23, Appli
43	807	92.8	166	16	US-10-448-667-23	Sequence 23, Appli
44	807	92.8	187	9	US-09-725-433-4	Sequence 4, Appli
45	807	92.8	187	14	US-10-284-740-12	Sequence 12, Appli

ALIGNMENTS

RESULT 1  
US-09-832-658-24  
; Sequence 24, Application US/09832658  
; Publication No. US20030021765A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; APPLICANT: Pepinsky, Blake  
; APPLICANT: Runkel, Laura  
; APPLICANT: Brickelmaier, Margot  
; APPLICANT: Whitty, Adrian  
; APPLICANT: Hochman, Paula  
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-la  
; FILE REFERENCE: A065PCT  
; CURRENT APPLICATION NUMBER: US/09/832,658  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/104,572  
; PRIOR FILING DATE: 1998-10-16  
; PRIOR APPLICATION NUMBER: 60/120,161  
; PRIOR FILING DATE: 1999-02-16  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: human  
US-09-832-658-24

Query Match 98.9%; Score 860; DB 10; Length 166;  
Best Local Similarity 98.8%; Pred. No. 2e-81;  
Matches 164; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 MSYNLGLFQSSNFQCKLLQNLQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60  
DB 1 MSYNLGLFQSSNFQCKLLQNLQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60  
QY 61 EMLQNIFAIPQDSSSTGWNETIVENLLANYHYQINHLKTVLEPKLEKEPFTRGALMSSL 120



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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFKEDAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFKEDAALTYI 60

Qy 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHOINHLKTVLEKEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHOINHLKTVLEKEKEDFTRGALMSSL 120

Qy 121 HLKRYGRIILHYLKAAYSHCAWTIVRVEILRNFYRINRLTGYLRN 166
Db 121 HLKRYGRIILHYLKAAYSHCAWTIVRVEILRNFYRINRLTGYLRN 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Qy 121 HLKRYGRIILHYLKAAYSHCAWTIVRVEILRNFYRINRLTGYLRN 166
Db 121 HLKRYGRIILHYLKAAYSHCAWTIVRVEILRNFYRINRLTGYLRN 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US20030166865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
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; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFKEDAALTYI 60

Qy 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHOINHLKTVLEKEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHOINHLKTVLEKEKEDFTRGALMSSL 120

Qy 121 HLKRYGRIILHYLKAAYSHCAWTIVRVEILRNFYRINRLTGYLRN 166
Db 121 HLKRYGRIILHYLKAAYSHCAWTIVRVEILRNFYRINRLTGYLRN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalgard
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen A/S
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: CHAIN
; LOCATION: (1)....(166)
; OTHER INFORMATION: h1FNb mature sequence
US-10-084-706-2

Query Match      97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166
DB 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Bolder Biotechnology, Inc.
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match      97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166
DB 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 020us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19

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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match      97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166
DB 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 020us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match      97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166
DB 121 HLKRYVGRILHYLKAAYSHCAWTIVRVEILNRYNRLTGYLRLN 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US20030186886A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd

```

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; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          97.4%; Score 847; DB 14; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conserved 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRNFDIPEIKQLQOQFQKEDAAITTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRNFDIPEIKQLQOQFQKEDAAITTY 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAAYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAAYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalesg+rd
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228ue410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFNE mature sequence
US-10-609-296-2

Query Match          97.4%; Score 847; DB 15; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conserved 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRNFDIPEIKQLQOQFQKEDAAITTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRNFDIPEIKQLQOQFQKEDAAITTY 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAAYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAAYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          97.4%; Score 847; DB 16; Length 166;
Best Local Similarity 97.6%; Pred. No. 4.6e-80;
Matches 162; Conserved 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRNFDIPEIKQLQOQFQKEDAAITTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRNFDIPEIKQLQOQFQKEDAAITTY 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAAYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAAYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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Search completed: May 19, 2004, 15:20:02  
Job time : 33.2 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 Seconds  
(without alignments)  
669.524 Million cell updates/sec

Title: US-09-832-659A-56  
Perfect score: 866  
Sequence: 1 MSYNLLGLFQSSNFQCKL.....RVEILNFYINRLTGYLRN 166

Scoring table: BLOSOM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA.\*  
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2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/PCTUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	832	96.1	166	4	US-09-397-992A-7
2	832	96.1	166	4	US-09-569-722A-1
3	832	96.1	166	4	US-09-648-569A-2
4	832	96.1	166	4	US-09-971-843-7
5	832	96.1	166	4	US-09-403-532E-1
6	832	96.1	166	4	US-09-462-941-5
7	832	96.1	166	6	5514567-4
8	832	96.1	187	3	US-09-206-903A-9
9	832	96.1	187	3	US-08-406-030A-30
10	832	96.1	187	3	US-09-202-122-9
11	832	96.1	187	3	US-09-206-935-7
12	832	96.1	187	4	US-09-206-936-7
13	832	96.1	187	4	US-09-487-792-4
14	832	96.1	187	4	US-09-908-594-4
15	832	96.1	187	4	US-09-919-622A-9
16	832	96.1	187	6	5514567-1
17	832	96.1	415	4	US-09-215-212-14
18	830	95.8	166	2	US-08-477-310A-1
19	827	95.5	166	1	US-08-213-448-1
20	827	95.5	166	3	US-08-912-768-1
21	827	95.5	166	4	US-09-569-722A-18
22	827	95.5	166	4	US-09-569-722A-4
23	827	95.5	166	5	PCT-0595-03206-1
24	827	95.5	187	3	US-08-912-768-3
25	825	95.3	166	4	US-09-487-792-21
26	825	95.3	166	4	US-09-908-594-21
27	824	95.2	187	1	US-08-026-758-22

28	823	95.0	166	4	US-09-331-260-2	Sequence 2, Appli
29	822	94.9	166	4	US-09-569-722A-5	Sequence 5, Appli
30	815	94.1	187	6	5326859-1	Patent No. 5326859
31	813	93.9	166	4	US-09-569-722A-13	Sequence 13, Appli
32	813	93.9	166	4	US-09-569-722A-19	Sequence 19, Appli
33	808	93.3	166	4	US-09-569-722A-8	Sequence 8, Appli
34	808	93.3	166	4	US-09-569-722A-16	Sequence 16, Appli
35	806	93.1	166	4	US-09-569-722A-6	Sequence 6, Appli
36	805	93.0	166	4	US-09-569-722A-24	Sequence 24, Appli
37	803	92.7	166	4	US-09-569-722A-14	Sequence 14, Appli
38	802	92.6	166	4	US-09-569-722A-7	Sequence 7, Appli
39	802	92.6	166	4	US-09-569-722A-12	Sequence 12, Appli
40	802	92.6	166	4	US-09-569-722A-17	Sequence 17, Appli
41	801	92.5	166	4	US-09-569-722A-22	Sequence 22, Appli
42	800	92.4	166	4	US-09-569-722A-15	Sequence 15, Appli
43	797	92.0	166	4	US-09-569-722A-20	Sequence 20, Appli
44	796	91.9	166	4	US-09-569-722A-11	Sequence 11, Appli
45	796	91.9	187	6	5510472-6	Patent No. 5510472

ALIGNMENTS

RESULT 1

US-09-397-992A-7  
; Sequence 7, Application US/09397992A  
; Patent No. 6329175  
; GENERAL INFORMATION:  
; APPLICANT: Conklin, Darrell  
; APPLICANT: Grant, Francis J.  
; APPLICANT: Rixon, Mark W.  
; APPLICANT: Kinsvogel, Wayne  
; TITLE OF INVENTION: Interferon-epsilon  
; FILE REFERENCE: 98-46  
; CURRENT APPLICATION NUMBER: US/09/397,992A  
; PRIOR FILING DATE: 1999-09-16  
; PRIOR APPLICATION NUMBER: 60/101,012  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/118,578  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/142,766  
; PRIOR FILING DATE: 1999-07-08  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-09-397-992A-7

Query Match	96.1%	Score 832	DB 4	Length 166
Best Local Similarity	96.4%	Pred. No. 1.1e-84		
Matches 160	Conservative 0	Mismatches 6	Indels 0	Gaps 0
QY	1	MSYNLLGLFQSSNFQCKLWOLNGLRLEYCKDKRMNFDIPEEIKOLOQFOKEDAAITLY	60	
Db	1	MSYNLLGLFQSSNFQCKLWOLNGLRLEYCKDKRMNFDIPEEIKOLOQFOKEDAAITLY	60	
QY	61	EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL	120	
Db	61	EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL	120	
QY	121	HLKRYGATAAVLAKEYSHCAWTVRVEILNFYINRLTGYLRN	166	
Db	121	HLKRYGRILHYLKAKEYSHCAWTVRVEILNFYINRLTGYLRN	166	

RESULT 2

US-09-569-722A-1  
; Sequence 1, Application US/09569722A  
; Patent No. 6514729  
; GENERAL INFORMATION:  
; APPLICANT: Bentzien, Joerg M

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; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
; FILE REFERENCE: A-68059-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/03/569,722A
; CURRENT FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: US 60/133,785
; PRIOR FILING DATE: 1993-05-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match
Best Local Similarity 96.1%; Score 832; DB 4; Length 166;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGAIAAAYLAKEYSHCAWTIVRVEILNRYINRLTGVLN 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGVLN 166

RESULT 3
US-09-648-569A-2
; Sequence 2, Application US/09648569A
; Patent No. 6531122
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us810
; CURRENT APPLICATION NUMBER: US/09/648,569A
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-648-569A-2

Query Match
Best Local Similarity 96.1%; Score 832; DB 4; Length 166;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGAIAAAYLAKEYSHCAWTIVRVEILNRYINRLTGVLN 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGVLN 166

RESULT 4
US-09-971-843-7
; Sequence 7, Application US/09971843
; Patent No. 6544505
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
```

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; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match
Best Local Similarity 96.1%; Score 832; DB 4; Length 166;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGAIAAAYLAKEYSHCAWTIVRVEILNRYINRLTGVLN 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGVLN 166

RESULT 5
US-09-403-532E-1
; Sequence 1, Application US/09403532E
; Patent No. 6572853
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Maschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/09/403,532E
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-403-532E-1

Query Match
Best Local Similarity 96.1%; Score 832; DB 4; Length 166;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAALTY 60
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QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HKRYVGAIAAAYLAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166  
DB 121 HKRYVGRILHLYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

## RESULT 6

US-09-462-941-5  
; Sequence 5, Application US/09462941  
; Patent No. 6608183

## GENERAL INFORMATION:

; APPLICANT: Cox III, George N  
; APPLICANT: Bolder Biotechnology, Inc.  
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins  
; FILE REFERENCE: 4152-1-PUS  
; CURRENT APPLICATION NUMBER: US/09/462,941  
; CURRENT FILING DATE: 2000-01-14  
; PRIOR APPLICATION NUMBER: 60/052,516  
; PRIOR FILING DATE: 1997-07-14  
; NUMBER OF SEQ ID NOS: 41  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens

## US-09-462-941-5

Query Match 96.1%; Score 832; DB 4; Length 166;  
Best Local Similarity 96.4%; Pred. No. 1.1e-84;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRWNFDIPEEIKQLQOQFQKEDAALTYI 60  
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRWNFDIPEEIKQLQOQFQKEDAALTYI 60  
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HKRYVGAIAAAYLAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166  
DB 121 HKRYVGRILHLYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

## RESULT 7

5514567-4  
; Patent No. 5514567  
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,  
; TADATSUGU

## TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID

## CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/400,179

; FILING DATE: 06-MAR-1995

## PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 389,922

; FILING DATE: 18-JUN-1982

; APPLICATION NUMBER: 201,359

; FILING DATE: 27-OCT-1980

; SEQ ID NO:4;

; LENGTH: 166

## 5514567-4

Query Match 96.1%; Score 832; DB 6; Length 166;  
Best Local Similarity 96.4%; Pred. No. 1.1e-84;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRWNFDIPEEIKQLQOQFQKEDAALTYI 60  
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRWNFDIPEEIKQLQOQFQKEDAALTYI 60

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HKRYVGAIAAAYLAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166  
DB 121 HKRYVGRILHLYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

## RESULT 8

US-09-206-903A-9  
; Sequence 9, Application US/09206903A  
; Patent No. 6200780

## GENERAL INFORMATION:

; APPLICANT: Chen, Jian  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Dong-Xiao  
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS  
; FILE REFERENCE: P1224-2R1  
; CURRENT APPLICATION NUMBER: US/09/206,903A  
; CURRENT FILING DATE: 1998-12-07  
; PRIOR APPLICATION NUMBER: US 60/106,463  
; PRIOR FILING DATE: 1998-10-30  
; NUMBER OF SEQ ID NOS: 12  
; SEQ ID NO 9  
; LENGTH: 187  
; TYPE: PRT  
; ORGANISM: Homo sapiens

## US-09-206-903A-9

Query Match 96.1%; Score 832; DB 3; Length 187;  
Best Local Similarity 96.4%; Pred. No. 1.3e-84;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRWNFDIPEEIKQLQOQFQKEDAALTYI 60  
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRWNFDIPEEIKQLQOQFQKEDAALTYI 81  
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 82 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141  
QY 121 HKRYVGAIAAAYLAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166  
DB 142 HKRYVGRILHLYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 187

## RESULT 9

US-08-406-030A-30  
; Sequence 30, Application US/08406030A  
; Patent No. 6270989

## GENERAL INFORMATION:

; APPLICANT: Treco, Douglas A.  
; APPLICANT: Heartlein, Michael W.  
; APPLICANT: Hauge, Brian M.  
; APPLICANT: Selden, Richard P  
; TITLE OF INVENTION: Protein Production and Delivery  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.

; STREET: Two Militia Drive

; CITY: Lexington

; STATE: Massachusetts

; COUNTRY: USA

; ZIP: 02173

## COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

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/ APPLICATION NUMBER: US/08/406,030A
/ FILING DATE: 17-MAR-1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/243,391
/ FILING DATE: 13-MAY-1994
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/985,586
/ FILING DATE: 03-DEC-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/911,533
/ FILING DATE: 10-JUL-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/787,840
/ FILING DATE: 05-NOV-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/789,188
/ FILING DATE: 05-NOV-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US93/11704
/ FILING DATE: 02-DEC-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US92/09627
/ FILING DATE: 05-NOV-1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Granahan, Patricia
/ REGISTRATION NUMBER: 32,227
/ REFERENCE/DOCKET NUMBER: TKT95-01
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 861-6240
/ TELEFAX: (617) 861-9540
/ INFORMATION FOR SEQ ID NO: 30:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 187 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-406-030A-30

Query Match          96.1%; Score 832; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 1.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQRSNFCQKLLWQNGRLVYCLKDRNFDIPEIKQLQOFQKEDAAITY 60
Db 22 MSYNLLGFLQRSNFCQKLLWQNGRLVYCLKDRNFDIPEIKQLQOFQKEDAAITY 81
Qy 61 EMLQNTFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNTFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
Qy 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 142 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 10
US-09-202-122-9
; Sequence 9, Application US/09202122
; Patent No. 6299869
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2 (filed)
; CURRENT APPLICATION NUMBER: US/09/202,122
; CURRENT FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9

Query Match          96.1%; Score 832; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 1.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQRSNFCQKLLWQNGRLVYCLKDRNFDIPEIKQLQOFQKEDAAITY 60
Db 22 MSYNLLGFLQRSNFCQKLLWQNGRLVYCLKDRNFDIPEIKQLQOFQKEDAAITY 81
Qy 61 EMLQNTFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNTFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
Qy 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 142 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 11
US-09-206-935-7
; Sequence 7, Application US/09206935
; Patent No. 6299877
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: 11669.50US05
; CURRENT APPLICATION NUMBER: US/09/206,935
; CURRENT FILING DATE: 1998-12-07
; EARLIER APPLICATION NUMBER: 60/084,045
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-206-935-7

Query Match          96.1%; Score 832; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 1.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQRSNFCQKLLWQNGRLVYCLKDRNFDIPEIKQLQOFQKEDAAITY 60
Db 22 MSYNLLGFLQRSNFCQKLLWQNGRLVYCLKDRNFDIPEIKQLQOFQKEDAAITY 81
Qy 61 EMLQNTFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNTFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
Qy 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 142 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 12
US-09-206-936-7
; Sequence 7, Application US/09206936A
; Patent No. 630475
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: No. 6300475el Inteferon
; FILE REFERENCE: P1224R1
; CURRENT APPLICATION NUMBER: US/09/206,936A
; CURRENT FILING DATE: 1998-12-07
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match          96.1%; Score 832; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 1.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 81

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 141

QY 121 HLKRYYGAIAYLAKEYSHCAWTVRVEILRNFRINRLTGYLNRN 166
Db 142 HLKRYYGRILHYLKAKEYSHCAWTVRVEILRNFRINRLTGYLNRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          96.1%; Score 832; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 1.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 81

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 141

QY 121 HLKRYYGAIAYLAKEYSHCAWTVRVEILRNFRINRLTGYLNRN 166
Db 142 HLKRYYGRILHYLKAKEYSHCAWTVRVEILRNFRINRLTGYLNRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2

; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match          96.1%; Score 832; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 1.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 81

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 141

QY 121 HLKRYYGAIAYLAKEYSHCAWTVRVEILRNFRINRLTGYLNRN 166
Db 142 HLKRYYGRILHYLKAKEYSHCAWTVRVEILRNFRINRLTGYLNRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match          96.1%; Score 832; DB 4; Length 187;
Best Local Similarity 96.4%; Pred. No. 1.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 81
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QY 61 EMLQNI FAI FRODSSSTGWN ETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db |||||  
QY 82 EMLQNI FAI FRODSSSTGWN ETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141  
Db |||||  
QY 121 HLKRYYGATAAAYLA AKEYSHCAWTIVRVEILENFYRINFLTGYLRN 166  
Db |||||  
QY 142 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILENFYRINFLTGYLRN 187  
Db |||||

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Job time : 12.8 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds  
(without alignments)  
1391.307 Million cell updates/sec

Title: US-09-832-659A-56

Perfect score: 866

Sequence: 1 MSYNLLGLFQRSSNFQCKL.....RVEILNRYINRLTGYLRN 166

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Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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- Published Applications AA:\*
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  - 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
  - 3: /cgn2\_6/ptodata/2/pubpaa/US02\_NEW\_PUB.pep.\*
  - 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
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  - 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	832	96.1	166	10	US-09-832-658-24
3	832	96.1	166	12	US-09-832-658-24
4	832	96.1	166	14	US-09-832-658-24
5	832	96.1	166	14	US-09-832-658-24
6	832	96.1	166	14	US-09-832-658-24
7	832	96.1	166	14	US-09-832-658-24
8	832	96.1	166	14	US-09-832-658-24
9	832	96.1	166	14	US-09-832-658-24
10	832	96.1	166	14	US-09-832-658-24
11	832	96.1	166	14	US-09-832-658-24
12	832	96.1	166	14	US-09-832-658-24
13	832	96.1	166	15	US-09-832-658-24
14	832	96.1	166	16	US-09-832-658-24
15	832	96.1	183	9	US-09-832-659-4

16	832	96.1	183	10	US-09-832-658-2	Sequence 2, Appli
17	832	96.1	186	12	US-10-449-831A-146	Sequence 146, App
18	832	96.1	187	9	US-09-788-552-1	Sequence 1, Appli
19	832	96.1	187	9	US-09-919-622A-9	Sequence 9, Appli
20	832	96.1	187	12	US-10-411-037-6	Sequence 6, Appli
21	832	96.1	187	12	US-09-881-050-17	Sequence 17, Appli
22	832	96.1	187	12	US-10-411-026-6	Sequence 6, Appli
23	832	96.1	187	13	US-10-004-201-2	Sequence 2, Appli
24	832	96.1	187	14	US-10-096-373-2	Sequence 2, Appli
25	832	96.1	187	14	US-10-418-038-9	Sequence 9, Appli
26	832	96.1	187	16	US-10-410-962-6	Sequence 6, Appli
27	832	96.1	187	16	US-10-411-049-6	Sequence 6, Appli
28	832	96.1	199	12	US-09-766-920B-11	Sequence 11, Appli
29	832	96.1	234	12	US-10-449-831A-192	Sequence 192, App
30	832	96.1	339	9	US-09-832-659-2	Sequence 2, Appli
31	830	95.8	166	12	US-10-035-420-1	Sequence 1, Appli
32	830	95.8	166	12	US-10-010-448-1	Sequence 7, Appli
33	829	95.7	187	9	US-09-927-850-7	Sequence 7, Appli
34	825	95.3	166	9	US-09-788-552-2	Sequence 42, Appli
35	823	95.0	418	9	US-09-832-659-44	Sequence 44, Appli
36	823	95.0	423	9	US-09-832-659-44	Sequence 44, Appli
37	822	94.9	166	14	US-10-246-932-2	Sequence 2, Appli
38	821	94.8	166	15	US-10-168-956A-1	Sequence 1, Appli
39	820	94.7	166	12	US-10-035-420-2	Sequence 2, Appli
40	820	94.7	166	12	US-10-010-448-2	Sequence 2, Appli
41	800	92.4	166	14	US-09-832-658-26	Sequence 26, Appli
42	792	91.5	166	14	US-10-449-456-23	Sequence 23, Appli
43	792	91.5	166	16	US-10-448-667-23	Sequence 23, Appli
44	792	91.5	187	9	US-09-725-433-4	Sequence 4, Appli
45	792	91.5	187	14	US-10-284-740-12	Sequence 12, Appli

## ALIGNMENTS

### RESULT 1

US-09-832-658-24  
; Sequence 24, Application US/09832658  
; Publication No. US20030021765A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; APPLICANT: Pepinsky, Blake  
; APPLICANT: Runkel, Laura  
; APPLICANT: Brickettmaier, Margot  
; APPLICANT: Whittely, Adrian  
; APPLICANT: Hochman, Paula  
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a  
; FILE REFERENCE: A06SPT  
; CURRENT APPLICATION NUMBER: US/09/832,658  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/104,572  
; PRIOR FILING DATE: 1998-10-16  
; PRIOR APPLICATION NUMBER: 60/120,161  
; PRIOR FILING DATE: 1993-02-16  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: human  
US-09-832-658-24

Query Match 97.6%; Score 845; DB 10; Length 166;  
Best Local Similarity 97.6%; Pred. No. 1.2e-79;  
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy	1	MSYNLLGLFQRSSNFQCKLWQLGRLEYCLKDRMNFDPPEIKLOQFOKEDAAITY 60
Db	1	MSYNLLGLFQRSSNFQCKLWQLGRLEYCLKDRMNFDPPEIKLOQFOKEDAAITY 60
Qy	61	EMLQNIFFAFRODSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTFRGALMSL 120

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Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Dorell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixen, Mark W.
; APPLICANT: Kindevogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 96.1%; Score 832; DB 10; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60

Qy 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

Qy 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Suhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT

Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorianne
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PPI8399,002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match 96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60

Qy 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

Qy 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTUP, Joern
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match 96.1%; Score 832; DB 12; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60

Qy 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

Qy 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorianne
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PPI8399,002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match 96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60

Qy 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

Qy 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTUP, Joern
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTY 60
QY 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGGAIAAYLAAYLAKEYSHCAWTVIRVEILRNRYNRLTGYLRN 166
DB 121 HLKRYGGRILHYLKAKEYSHCAWTVIRVEILRNRYNRLTGYLRN 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTY 60
QY 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGGAIAAYLAAYLAKEYSHCAWTVIRVEILRNRYNRLTGYLRN 166
DB 121 HLKRYGGRILHYLKAKEYSHCAWTVIRVEILRNRYNRLTGYLRN 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US2003016865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
```

```
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTY 60
QY 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGGAIAAYLAAYLAKEYSHCAWTVIRVEILRNRYNRLTGYLRN 166
DB 121 HLKRYGGRILHYLKAKEYSHCAWTVIRVEILRNRYNRLTGYLRN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalgard
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERPERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hinfB mature sequence
US-10-084-706-2

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGAIAYLAAYLAKEYSHCAWTVRVEILNFYINRLTGYLRN 166
DB 121 HLKRYGRIHLKAYKEYSHCAWTVRVEILNFYINRLTGYLRN 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,515
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGAIAYLAAYLAKEYSHCAWTVRVEILNFYINRLTGYLRN 166
DB 121 HLKRYGRIHLKAYKEYSHCAWTVRVEILNFYINRLTGYLRN 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2003-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGAIAYLAAYLAKEYSHCAWTVRVEILNFYINRLTGYLRN 166
DB 121 HLKRYGRIHLKAYKEYSHCAWTVRVEILNFYINRLTGYLRN 166

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETHVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGAIAYLAAYLAKEYSHCAWTVRVEILNFYINRLTGYLRN 166
DB 121 HLKRYGRIHLKAYKEYSHCAWTVRVEILNFYINRLTGYLRN 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US20030186886A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
```

```
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          96.1%; Score 832; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conserved 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166
Db 121 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsgaard
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxysen Aps
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; PRIOR FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFNB mature sequence
US-10-609-296-2

Query Match          96.1%; Score 832; DB 15; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conserved 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166
Db 121 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Preseus, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          96.1%; Score 832; DB 16; Length 166;
Best Local Similarity 96.4%; Pred. No. 2.7e-78;
Matches 160; Conserved 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166
Db 121 HLKRYYGRILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US20020155547A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
; FILE REFERENCE: A064PCTSEQ
; CURRENT APPLICATION NUMBER: US/09/832,659
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/120,237
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/104,491
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 183
; TYPE: PRT
; ORGANISM: murine
US-09-832-659-4
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Query Match          96.1%; Score 832; DB 9; Length 183;
Best Local Similarity 96.4%; Pred. No. 3,1e-78;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRNFDIPEEIKQLQOFQKEDAAITY 60
        |||||||
Db       18 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRNFDIPEEIKQLQOFQKEDAAITY 77
        |||||||

QY      61 EMLQNIFAIPRODSSSTGNETIVENLLANVHQINHLKTVLEEKLEKEDPTRGALMSSL 120
        |||||||
Db       78 EMLQNIFAIPRODSSSTGNETIVENLLANVHQINHLKTVLEEKLEKEDPTRGALMSSL 137
        |||||||

QY      121 HLKRYYGAIYAALAAKEYSHCAWTIVRVEILRNFYINRLTCYLRN 166
        |||||||
Db       138 HLKRYYGRIHLHLKKEYSHCAWTIVRVEILRNFYINRLTCYLRN 183
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Search completed: May 19, 2004, 15:20:02  
Job time : 34.2 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds  
(without alignments)  
1391.307 Million cell updates/sec

Title: US-09-832-659A-55

Perfect score: 867

Sequence: 1 MSYNLLGLFQSSNFQCKL.....RVEILNFYRINLTGTLRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*  
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2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*  
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7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*  
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10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*  
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14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep.\*  
15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*  
16: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*  
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18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	842	97.1	166	10	US-09-832-658-24
2	829	95.6	166	10	US-09-971-843-7
3	829	95.6	166	12	US-09-732-436-16
4	829	95.6	166	14	US-10-246-932-1
5	829	95.6	166	14	US-10-186-962-1
6	829	95.6	166	14	US-10-400-377-5
7	829	95.6	166	14	US-10-400-708-5
8	829	95.6	166	14	US-10-084-706-2
9	829	95.6	166	14	US-10-298-148-5
10	829	95.6	166	14	US-10-325-720-2
11	829	95.6	166	14	US-10-351-189-2
12	829	95.6	166	14	US-10-449-456-1
13	829	95.6	166	15	US-10-609-296-2
14	829	95.6	166	16	US-10-448-667-1
15	829	95.6	183	9	US-09-832-659-4

16	829	95.6	183	10	US-09-832-658-2	Sequence 2, Appli
17	829	95.6	186	12	US-10-449-831A-146	Sequence 146, App
18	829	95.6	187	9	US-09-788-552-1	Sequence 1, Appli
19	829	95.6	187	9	US-09-919-622A-9	Sequence 9, Appli
20	829	95.6	187	12	US-10-411-037-6	Sequence 6, Appli
21	829	95.6	187	12	US-09-881-050-17	Sequence 17, Appli
22	829	95.6	187	12	US-10-411-026-6	Sequence 6, Appli
23	829	95.6	187	13	US-10-004-201-2	Sequence 2, Appli
24	829	95.6	187	14	US-10-096-373-2	Sequence 2, Appli
25	829	95.6	187	14	US-10-418-038-9	Sequence 9, Appli
26	829	95.6	187	16	US-10-410-962-6	Sequence 6, Appli
27	829	95.6	187	16	US-10-411-049-6	Sequence 6, Appli
28	829	95.6	199	12	US-09-766-920B-11	Sequence 11, Appli
29	829	95.6	234	12	US-10-449-831A-192	Sequence 192, App
30	829	95.6	399	9	US-09-832-659-2	Sequence 2, Appli
31	827	95.4	166	12	US-10-035-420-1	Sequence 1, Appli
32	827	95.4	166	12	US-10-010-448-1	Sequence 1, Appli
33	826	95.3	187	9	US-09-927-850-7	Sequence 7, Appli
34	822	94.8	166	9	US-09-788-552-2	Sequence 2, Appli
35	820	94.6	166	10	US-09-832-658-25	Sequence 42, Appli
36	820	94.6	418	9	US-09-832-659-42	Sequence 44, Appli
37	820	94.6	423	9	US-09-832-659-44	Sequence 2, Appli
38	819	94.5	166	14	US-10-246-932-2	Sequence 2, Appli
39	818	94.3	166	15	US-10-168-956A-1	Sequence 1, Appli
40	817	94.2	166	12	US-10-035-420-2	Sequence 2, Appli
41	817	94.2	166	12	US-10-010-448-2	Sequence 2, Appli
42	809	93.3	166	14	US-10-084-706-56	Sequence 56, Appli
43	809	93.3	166	15	US-10-609-296-56	Sequence 56, Appli
44	808	93.2	166	14	US-10-449-456-23	Sequence 23, Appli
45	808	93.2	166	16	US-10-448-667-23	Sequence 23, Appli

#### ALIGNMENTS

#### RESULT 1

US-09-832-658-24  
; Sequence 24, Application US/09832658  
; Publication No. US20030021765A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; APPLICANT: Pepinsky, Blake  
; APPLICANT: Runkel, Laura  
; APPLICANT: Brickelmaier, Margot  
; APPLICANT: Whitty, Adrian  
; APPLICANT: Hochman, Paula  
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-la  
; FILE REFERENCE: A065PCT  
; CURRENT APPLICATION NUMBER: US/09/832,658  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/104,572  
; PRIOR FILING DATE: 1998-10-16  
; PRIOR APPLICATION NUMBER: 60/120,161  
; PRIOR FILING DATE: 1999-02-16  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: human  
US-09-832-658-24

Query Match 97.1%; Score 842; DB 10; Length 166;

Best Local Similarity 97.0%; Pred. No. 4e-81;

Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGLFQSSNFQCKLWQLGRLEYCLKDMNFDIPEEIKLOFOQKEDAAITY 60

DB 1 MSYNLLGLFQSSNFQCKLWQLGRLEYCLKDMNFDIPEEIKLOFOQKEDAAITY 60

QY 61 EMLQNIFFQDSSSTGWNTEIVNLLVYHQLTKVLEEKLEKAAATAGAAASAL 120

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Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGKLMSSL 120

Qy      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166
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Db      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46DI
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match      95.6%; Score 829; DB 10; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy      1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTY 60
Db      1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTY 60

Qy      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDAAALTY 120
Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDAAALTY 120

Qy      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166
Db      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhidas K
; APPLICANT: Shimkete, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT

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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match      95.6%; Score 829; DB 12; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy      1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTY 60
Db      1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTY 60

Qy      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDAAALTY 120
Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGKLMSSL 120

Qy      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166
Db      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorianne
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PP18399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match      95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy      1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTY 60
Db      1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAALTY 60

Qy      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDAAALTY 120
Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGKLMSSL 120

Qy      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166
Db      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxysen Aps
; APPLICANT: Maxysen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30

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; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: h1PNB mature sequence
US-10-084-706-2

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAAGSAL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAAGSAL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

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DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAAGSAL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19

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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
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DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAAGSAL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

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DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAAGSAL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFIRNLTGYLRN 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US2003018686A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd

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; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQKEDAAITTY 60
QY 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEAATAGAAMSAL 120
DB 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEAATAGAAMSAL 120
QY 121 HLKRYVGRILHYLKAKESHCAWTIVRVEILRNFRINLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKESHCAWTIVRVEILRNFRINLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalgard
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORNSEN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/984,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: h1FNB mature sequence
US-10-609-296-2

Query Match          95.6%; Score 829; DB 15; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQKEDAAITTY 60
QY 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEAATAGAAMSAL 120
DB 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEAATAGAAMSAL 120
QY 121 HLKRYVGRILHYLKAKESHCAWTIVRVEILRNFRINLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKESHCAWTIVRVEILRNFRINLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Eresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          95.6%; Score 829; DB 16; Length 166;
Best Local Similarity 95.8%; Pred. No. 9.7e-80;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQKEDAAITTY 60
QY 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEAATAGAAMSAL 120
DB 61 EMLQNIFAIFRDSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEAATAGAAMSAL 120
QY 121 HLKRYVGRILHYLKAKESHCAWTIVRVEILRNFRINLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKESHCAWTIVRVEILRNFRINLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US20020155547A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
; FILE REFERENCE: A064PCTSEQ
; CURRENT APPLICATION NUMBER: US/09/832,659
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/120,237
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/104,491
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 183
; TYPE: PRT
; ORGANISM: murine
US-09-832-659-4

Query Match          95.6%; Score 829; DB 9; Length 183;
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Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

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Db      78 EMLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 137
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QY      121 HLKRYVGRILHLKAKKEYSHCAWTIVRVEILENFYINRLTGYLRN 166
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Db      138 HLKRYVGRILHLKAKKEYSHCAWTIVRVEILENFYINRLTGYLRN 183
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Job time : 33.2 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 Seconds  
(without alignments)  
669.524 Million cell updates/sec

Title: US-09-832-659A-55

Perfect score: 867

Sequence: 1 MSYNLLGLFQSSNFQCKL.....RVEILNFYRINLTGYLRN 166

Scoring table: BLOSUM62

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Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.\*

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- 2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep.\*
- 3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*
- 4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*
- 5: /cgn2\_6/ptodata/2/iaa/PCTUS\_COMB.pep.\*
- 6: /cgn2\_6/ptodata/2/iaa/backfiles.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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1	829	95.6	166	4	US-09-397-992A-7
2	829	95.6	166	4	US-09-569-722A-1
3	829	95.6	166	4	US-09-648-569A-2
4	829	95.6	166	4	US-09-971-843-7
5	829	95.6	166	4	US-09-403-532E-1
6	829	95.6	166	4	US-09-462-941-5
7	829	95.6	166	6	5514567-4
8	829	95.6	187	3	US-09-206-903A-9
9	829	95.6	187	3	US-08-406-030A-30
10	829	95.6	187	3	US-09-202-122-9
11	829	95.6	187	3	US-09-206-935-7
12	829	95.6	187	4	US-09-206-336-7
13	829	95.6	187	4	US-09-487-792-4
14	829	95.6	187	4	US-09-908-594-4
15	829	95.6	187	4	US-09-919-622A-9
16	829	95.6	187	6	5514567-1
17	829	95.6	415	4	US-09-215-212-14
18	827	95.4	166	2	US-08-477-310A-1
19	824	95.0	166	1	US-08-213-448-1
20	824	95.0	166	3	US-09-912-768-1
21	824	95.0	166	4	US-09-569-722A-4
22	824	95.0	166	4	US-09-569-722A-18
23	824	95.0	166	5	PCT-US95-03206-1
24	824	95.0	187	3	US-08-912-768-3
25	822	94.8	166	4	US-09-487-792-21
26	822	94.8	166	4	US-09-908-594-21
27	821	94.7	187	1	US-08-026-758-22

28	820	94.6	166	4	US-09-331-260-2	Sequence 2, Appli
29	819	94.5	166	4	US-09-569-722A-5	Sequence 5, Appli
30	812	93.7	187	6	5326859-1	Patent No. 5326859
31	810	93.4	166	4	US-09-569-722A-13	Sequence 13, Appl
32	810	93.4	166	4	US-09-569-722A-19	Sequence 19, Appl
33	808	93.2	166	4	US-09-403-532E-23	Sequence 23, Appl
34	805	92.8	166	4	US-09-569-722A-8	Sequence 8, Appli
35	805	92.8	166	4	US-09-569-722A-16	Sequence 16, Appl
36	803	92.6	166	4	US-09-569-722A-6	Sequence 6, Appli
37	802	92.3	166	4	US-09-569-722A-24	Sequence 24, Appl
38	800	92.3	166	4	US-09-569-722A-14	Sequence 14, Appl
39	799	92.2	166	4	US-09-569-722A-7	Sequence 7, Appli
40	799	92.2	166	4	US-09-569-722A-12	Sequence 12, Appl
41	799	92.2	166	4	US-09-569-722A-17	Sequence 17, Appl
42	798	92.0	166	4	US-09-569-722A-22	Sequence 22, Appl
43	798	92.0	166	4	US-09-403-532E-24	Sequence 24, Appl
44	797	91.9	166	4	US-09-569-722A-15	Sequence 15, Appl
45	794	91.6	166	4	US-09-569-722A-20	Sequence 20, Appl

#### ALIGNMENTS

RESULT 1  
US-09-397-992A-7  
; Sequence 7, Application US/09397992A  
; Patent No. 6329175  
; GENERAL INFORMATION:  
; APPLICANT: Conklin, Darrell  
; APPLICANT: Grant, Francis J.  
; APPLICANT: Rixon, Mark W.  
; APPLICANT: Kindsvogel, Wayne  
; TITLE OF INVENTION: Interferon-epsilon  
; FILE REFERENCE: 98-46  
; CURRENT APPLICATION NUMBER: US/09/397,992A  
; PRIOR FILING DATE: 1999-09-16  
; PRIOR APPLICATION NUMBER: 60/101,012  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/118,578  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/142,766  
; PRIOR FILING DATE: 1999-07-08  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-397-992A-7

Query Match 95.6%; Score 829; DB 4; Length 166;  
Best Local Similarity 95.8%; Pred. No. 4.7e-85;  
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

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QY	61	EMLQNIFFAIFRODSSSTGWNFTIVENLLANYVQHINHLKTVLEKLEKEATAGAA	120
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QY	121	HLKRYGRIILHYLKAKEYSHCAWTVRVEILNFRINRLTGYLRN	166
DB	121	HLKRYGRIILHYLKAKEYSHCAWTVRVEILNFRINRLTGYLRN	166

RESULT 2  
US-09-569-722A-1  
; Sequence 1, Application US/09569722A  
; Patent No. 6514729  
; GENERAL INFORMATION:  
; APPLICANT: Bentzien, Joerg M

; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY  
; FILE REFERENCE: A-68059-1/RFT/RMS/RMK  
; CURRENT APPLICATION NUMBER: US/09/569,722A  
; CURRENT FILING DATE: 2000-05-11  
; PRIOR APPLICATION NUMBER: US 60/133,785  
; PRIOR FILING DATE: 1999-05-12  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 1  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-569-722A-1

Query Match 95.6%; Score 829; DB 4; Length 166;  
Best Local Similarity 95.8%; Pred. No. 4.7e-85;  
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;  
  
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DB 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILNFRINRLTYGLRN 166

RESULT 3  
US-09-648-569A-2  
; Sequence 2, Application US/09648569A  
; Patent No. 6531122  
; GENERAL INFORMATION:  
; APPLICANT: Pedersen, A.H., et al.  
; APPLICANT: Maxygen Aps  
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates  
; FILE REFERENCE: 0202us810  
; CURRENT APPLICATION NUMBER: US/09/648,569A  
; CURRENT FILING DATE: 2000-08-25  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-648-569A-2

Query Match 95.6%; Score 829; DB 4; Length 166;  
Best Local Similarity 95.8%; Pred. No. 4.7e-85;  
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;  
  
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DB 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLCYCLKDRMNFDPPEIKLOQFOQKEDAAALTY 60  
  
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DB 61 EMLQNFPAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAASAL 120  
  
QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILNFRINRLTYGLRN 166  
DB 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILNFRINRLTYGLRN 166

RESULT 4  
US-09-971-843-7  
; Sequence 7, Application US/09971843  
; Patent No. 6544505  
; GENERAL INFORMATION:  
; APPLICANT: Conklin, Darrell C.

; APPLICANT: Grant, Francis J.  
; APPLICANT: Rixon, Mark W.  
; APPLICANT: Kindsvogel, Wayne  
; TITLE OF INVENTION: Interferon-epsilon  
; FILE REFERENCE: 98-46DI  
; CURRENT APPLICATION NUMBER: US/09/971,843  
; CURRENT FILING DATE: 2001-10-04  
; PRIOR APPLICATION NUMBER: 60/101,012  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/118,578  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/142,766  
; PRIOR FILING DATE: 1999-07-08  
; PRIOR APPLICATION NUMBER: 09/397,992  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-971-843-7

Query Match 95.6%; Score 829; DB 4; Length 166;  
Best Local Similarity 95.8%; Pred. No. 4.7e-85;  
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;  
  
QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLCYCLKDRMNFDPPEIKLOQFOQKEDAAALTY 60  
DB 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLCYCLKDRMNFDPPEIKLOQFOQKEDAAALTY 60  
  
QY 61 EMLQNFPAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAASAL 120  
DB 61 EMLQNFPAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAAASAL 120  
  
QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILNFRINRLTYGLRN 166  
DB 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILNFRINRLTYGLRN 166

RESULT 5  
US-09-403-532E-1  
; Sequence 1, Application US/09403532E  
; Patent No. 6572853  
; GENERAL INFORMATION:  
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan  
; APPLICANT: Schneider-Fresenius, Christian  
; APPLICANT: Otto, Bernd  
; APPLICANT: Maschutzka, Gero  
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY  
; FILE REFERENCE: 127-65050  
; CURRENT APPLICATION NUMBER: US/09/403,532E  
; CURRENT FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238  
; PRIOR FILING DATE: 1998-04-16  
; PRIOR APPLICATION NUMBER: DE 19717864.2  
; PRIOR FILING DATE: 1997-04-23  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 1  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-403-532E-1

Query Match 95.6%; Score 829; DB 4; Length 166;  
Best Local Similarity 95.8%; Pred. No. 4.7e-85;  
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;  
  
QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLCYCLKDRMNFDPPEIKLOQFOQKEDAAALTY 60  
DB 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLCYCLKDRMNFDPPEIKLOQFOQKEDAAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKAAATAGAAMSAL 120  
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGKLMSSL 120  
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166  
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

## RESULT 6

US-09-462-941-5  
; Sequence 5, Application US/09462941  
; Patent No. 6608183  
; GENERAL INFORMATION:  
; APPLICANT: Cox III, George N.  
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins  
; FILE REFERENCE: 4152-1-PUS  
; CURRENT APPLICATION NUMBER: US/09/462,941  
; CURRENT FILING DATE: 2000-01-14  
; PRIOR APPLICATION NUMBER: 60/052,516  
; PRIOR FILING DATE: 1997-07-14  
; NUMBER OF SEQ ID NOS: 41  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-462-941-5

Query Match 95.6%; Score 829; DB 4; Length 166;  
Best Local Similarity 95.8%; Pred. No. 4.7e-85;  
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQKEDAAITY 60  
DB 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQKEDAAITY 60  
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKAAATAGAAMSAL 120  
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGKLMSSL 120  
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166  
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

## RESULT 7

5514567-4  
; Patent No. 5514567  
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI, TADATSUGU  
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID  
; NUMBER OF SEQUENCES: 5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/400,179  
; FILING DATE: 06-MAR-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 389,922  
; FILING DATE: 18-JUN-1982  
; APPLICATION NUMBER: 201,359  
; FILING DATE: 27-OCT-1980  
; SEQ ID NO: 4  
; LENGTH: 166  
5514567-4

Query Match 95.6%; Score 829; DB 6; Length 166;  
Best Local Similarity 95.8%; Pred. No. 4.7e-85;  
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQKEDAAITY 60  
DB 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKAAATAGAAMSAL 120  
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGKLMSSL 120  
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166  
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

## RESULT 8

US-09-206-903A-9  
; Sequence 9, Application US/09206903A  
; Patent No. 6200780  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Jian  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Dong-Xiao  
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS  
; FILE REFERENCE: P1224-2R1  
; CURRENT APPLICATION NUMBER: US/09/206,903A  
; CURRENT FILING DATE: 1998-12-07  
; PRIOR APPLICATION NUMBER: US 60/106,463  
; PRIOR FILING DATE: 1998-10-30  
; NUMBER OF SEQ ID NOS: 12  
; SEQ ID NO 9  
; LENGTH: 187  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-206-903A-9

Query Match 95.6%; Score 829; DB 3; Length 187;  
Best Local Similarity 95.8%; Pred. No. 5.6e-85;  
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQKEDAAITY 60  
DB 22 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQKEDAAITY 81  
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKAAATAGAAMSAL 120  
DB 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGKLMSSL 141  
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166  
DB 142 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 187

## RESULT 9

US-08-406-030A-30  
; Sequence 30, Application US/08406030A  
; Patent No. 6270989  
; GENERAL INFORMATION:  
; APPLICANT: Treco, Douglas A.  
; APPLICANT: Heartlein, Michael W.  
; APPLICANT: Hauge, Brian M.  
; APPLICANT: Seiden, Richard F.  
; TITLE OF INVENTION: Protein Production and Delivery  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; CITY: Lexington  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:

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/
/ APPLICATION NUMBER: US/08/406,030A
/ FILING DATE: 17-MAR-1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/243,391
/ FILING DATE: 13-MAY-1994
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/985,586
/ FILING DATE: 03-DEC-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/911,533
/ FILING DATE: 10-JUL-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/787,840
/ FILING DATE: 05-NOV-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/789,188
/ FILING DATE: 05-NOV-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US93/11704
/ FILING DATE: 02-DEC-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US92/09627
/ FILING DATE: 05-NOV-1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Granahan, Patricia
/ REGISTRATION NUMBER: 32,227
/ REFERENCE/DOCKET NUMBER: TKT95-01
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 861-6240
/ TELEFAX: (617) 861-9540
/ INFORMATION FOR SEQ ID NO: 30:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 187 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-406-030A-30

Query Match          95.6%; Score 829; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 5.6e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAMSAL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141
QY 121 HLKRYVGRILHYLKAKESHCATIVRVEILRNFYRINRLTGYLNR 166
Db 142 HLKRYVGRILHYLKAKESHCATIVRVEILRNFYRINRLTGYLNR 187

RESULT 10
US-09-202-122-9
/ Sequence 9, Application US/09202122
/ Patent No. 6239869
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Jian
/ APPLICANT: Godowski, Paul
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Dong-Xiao
/ TITLE OF INVENTION: HUMAN INTERFERON-BPSILON: A TYPE I INTERFERON
/ FILE REFERENCE: P1224R2 (filed)
/ CURRENT APPLICATION NUMBER: US/09/202,122
/ CURRENT FILING DATE: 1999-03-04
/ PRIOR APPLICATION NUMBER: PCT/US98/25672
/ PRIOR FILING DATE: 1998-12-03
/ NUMBER OF SEQ ID NOS: 12
/ SEQ ID NO 9

Query Match          95.6%; Score 829; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 5.6e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEAATAGAMSAL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141
QY 121 HLKRYVGRILHYLKAKESHCATIVRVEILRNFYRINRLTGYLNR 166
Db 142 HLKRYVGRILHYLKAKESHCATIVRVEILRNFYRINRLTGYLNR 187

RESULT 12
US-09-206-936-7
/ Sequence 7, Application US/09206936A
/ Patent No. 6300475
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Jian
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: No. 6300475el Inteferon
/ FILE REFERENCE: P1224R1
/ CURRENT APPLICATION NUMBER: US/09/206,936A
/ CURRENT FILING DATE: 1998-12-07
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match      95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 5.6e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 81

QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYHQLNHLKTVLEEKLEKEAATAGAAMSAL 120
DB 82 EMLQNIFAIFQDSSSTGWNTEIVENLLANYHQLNHLKTVLEEKLEKEAATAGAAMSAL 141

QY 121 HKRYYGRIILHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 166
DB 142 HKRYYGRIILHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match      95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 5.6e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 81

QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYHQLNHLKTVLEEKLEKEAATAGAAMSAL 120
DB 82 EMLQNIFAIFQDSSSTGWNTEIVENLLANYHQLNHLKTVLEEKLEKEAATAGAAMSAL 141

QY 121 HKRYYGRIILHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 166
DB 142 HKRYYGRIILHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2

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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match      95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 5.6e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 81

QY 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYHQLNHLKTVLEEKLEKEAATAGAAMSAL 120
DB 82 EMLQNIFAIFQDSSSTGWNTEIVENLLANYHQLNHLKTVLEEKLEKEAATAGAAMSAL 141

QY 121 HKRYYGRIILHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 166
DB 142 HKRYYGRIILHYLKAKEYSHCAWTIVRVEILRNRYINRLTGYLRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match      95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 5.6e-85;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 81

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Db	82	EMLONFAIPRODSSTGWNETI	VENLLANVYHOINHLKTVL	BEKLEKEDFTRKUMSSL	141
Qy	121	HUKVYGRILHLKAKESHCAMTIVR	VEILRNPFYRNLRTGYLRN	166	
Db	142	HUKVYGRILHLKAKESHCAMTIVR	VEILRNPFYRNLRTGYLRN	187	

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Job time : 12.8 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 seconds  
(without alignments)  
669.524 Million cell updates/sec

Title: US-09-832-659A-54

Perfect score: 867  
Sequence: 1 MSYNLLGLQSSNFQCKL.....RVEILNRYINRLTGYLRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

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- 2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep:\*
- 3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep:\*
- 4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep:\*
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- 6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	829	95.6	166	4	US-09-397-992A-7
2	829	95.6	166	4	US-09-569-722A-1
3	829	95.6	166	4	US-09-648-569A-2
4	829	95.6	166	4	US-09-971-843-7
5	829	95.6	166	4	US-09-403-532E-1
6	829	95.6	166	4	US-09-462-941-5
7	829	95.6	166	6	5514567-4
8	829	95.6	187	3	US-09-206-903A-9
9	829	95.6	187	3	US-08-406-030A-30
10	829	95.6	187	3	US-09-202-132-9
11	829	95.6	187	3	US-09-206-935-7
12	829	95.6	187	4	US-09-206-936-7
13	829	95.6	187	4	US-09-487-732-4
14	829	95.6	187	4	US-09-908-594-4
15	829	95.6	187	4	US-09-919-622A-9
16	829	95.6	187	6	5514567-1
17	829	95.6	415	4	US-09-215-212-14
18	827	95.4	166	2	US-08-477-310A-1
19	824	95.0	166	1	US-08-213-448-1
20	824	95.0	166	3	US-08-912-768-1
21	824	95.0	166	4	US-09-569-722A-4
22	824	95.0	166	4	US-09-569-722A-18
23	824	95.0	166	5	PCT-US95-03206-1
24	824	95.0	187	3	US-08-912-768-3
25	822	94.8	166	4	US-09-487-732-21
26	822	94.8	166	4	US-09-908-594-21
27	821	94.7	187	1	US-08-026-758-22

28	820	94.6	166	4	US-09-331-260-2	Sequence 2, Appli
29	819	94.5	166	4	US-09-569-722A-5	Sequence 5, Appli
30	812	93.7	187	6	536859-1	Patent No. 536859
31	810	93.4	166	4	US-09-569-722A-13	Sequence 13, Appl
32	810	93.4	166	4	US-09-569-722A-19	Sequence 19, Appl
33	805	92.8	166	4	US-09-569-722A-8	Sequence 8, Appli
34	805	92.8	166	4	US-09-569-722A-16	Sequence 16, Appli
35	803	92.6	166	4	US-09-569-722A-6	Sequence 6, Appli
36	802	92.5	166	4	US-09-569-722A-24	Sequence 24, Appl
37	800	92.3	166	4	US-09-569-722A-14	Sequence 14, Appl
38	799	92.2	166	4	US-09-569-722A-7	Sequence 7, Appli
39	799	92.2	166	4	US-09-569-722A-12	Sequence 12, Appl
40	799	92.2	166	4	US-09-569-722A-17	Sequence 17, Appl
41	798	92.0	166	4	US-09-569-722A-22	Sequence 22, Appl
42	797	91.9	166	4	US-09-569-722A-15	Sequence 15, Appl
43	794	91.6	166	4	US-09-569-722A-20	Sequence 20, Appl
44	793	91.5	166	4	US-09-569-722A-11	Sequence 11, Appl
45	792	91.3	166	4	US-09-569-722A-23	Sequence 23, Appl

## ALIGNMENTS

RESULT 1  
US-09-397-992A-7  
; Sequence 7, Application US/09397992A  
; Patent No. 6329175  
; GENERAL INFORMATION:  
; APPLICANT: Conklin, Darrell  
; APPLICANT: Grant, Francis J.  
; APPLICANT: Rixon, Mark W.  
; APPLICANT: Kindsvoegel, Wayne  
; TITLE OF INVENTION: Interferon-epsilon  
; FILE REFERENCE: 98-46  
; CURRENT APPLICATION NUMBER: US/09/397,992A  
; PRIOR FILING DATE: 1999-09-16  
; PRIOR APPLICATION NUMBER: 60/101,012  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/118,578  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/142,766  
; PRIOR FILING DATE: 1999-07-08  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-397-992A-7

Query Match 95.6%; Score 829; DB 4; Length 166;  
Best Local Similarity 95.8%; Pred No. 6.2e-87;  
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy	1	MSYNLLGLQSSNFQCKLWQLNGRLEYCLKDRNFDIPEIKLOQFOKEDALITY 60		1	MSYNLLGLQSSNFQCKLWQLNGRLEYCLKDRNFDIPEIKLOQFOKEDALITY 60
Db	1	MSYNLLGLQSSNFQCKLWQLNGRLEYCLKDRNFDIPEIKLOQFOKEDALITY 60		1	MSYNLLGLQSSNFQCKLWQLNGRLEYCLKDRNFDIPEIKLOQFOKEDALITY 60
Qy	61	EMLQNTFAIPRODSSSTGNETIVENLLANVYHQNHLTKVLAALAAADFTRGALMSSL 120		61	EMLQNTFAIPRODSSSTGNETIVENLLANVYHQNHLTKVLAALAAADFTRGALMSSL 120
Db	61	EMLQNTFAIPRODSSSTGNETIVENLLANVYHQNHLTKVLAALAAADFTRGALMSSL 120		61	EMLQNTFAIPRODSSSTGNETIVENLLANVYHQNHLTKVLAALAAADFTRGALMSSL 120
Qy	121	HLKRYVGRILHYLKAKEYSHCAWTIVRVILNRYINRLTGYLRN 166		121	HLKRYVGRILHYLKAKEYSHCAWTIVRVILNRYINRLTGYLRN 166
Db	121	HLKRYVGRILHYLKAKEYSHCAWTIVRVILNRYINRLTGYLRN 166		121	HLKRYVGRILHYLKAKEYSHCAWTIVRVILNRYINRLTGYLRN 166

RESULT 2  
US-09-569-722A-1  
; Sequence 1, Application US/09569722A  
; Patent No. 6514729  
; GENERAL INFORMATION:  
; APPLICANT: Bentzien, Joerg M

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/ TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
/ FILE REFERENCE: A-68059-1/RFT/RMS/RMK
/ CURRENT APPLICATION NUMBER: US/09/569,722A
/ PRIOR FILING DATE: 2000-05-11
/ PRIOR APPLICATION NUMBER: US 60/133,785
/ PRIOR FILING DATE: 1999-03-12
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 1
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match          95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.2e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLQWLNQGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLQWLNQGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLAAKLAAADFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLEN 166
DB 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLEN 166

RESULT 3
US-09-648-569A-2
/ Sequence 2, Application US/09648569A
/ Patent No. 6531122
/ GENERAL INFORMATION:
/ APPLICANT: Pedersen, A.H., et al.
/ APPLICANT: Maxygen Aps
/ TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
/ FILE REFERENCE: 0202us810
/ CURRENT APPLICATION NUMBER: US/09/648,569A
/ CURRENT FILING DATE: 2000-08-25
/ NUMBER OF SEQ ID NOS: 45
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 2
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-648-569A-2

Query Match          95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.2e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLQWLNQGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLQWLNQGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLAAKLAAADFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLEN 166
DB 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLEN 166

RESULT 4
US-09-971-843-7
/ Sequence 7, Application US/09971843
/ Patent No. 6544505
/ GENERAL INFORMATION:
/ APPLICANT: Conklin, Darrell C.
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/ APPLICANT: Grant, Francis J.
/ APPLICANT: Rixon, Mark W.
/ APPLICANT: Kindsvogel, Wayne
/ TITLE OF INVENTION: Interferon-epsilon
/ FILE REFERENCE: 98-46Di
/ CURRENT APPLICATION NUMBER: US/09/971,843
/ CURRENT FILING DATE: 2001-10-04
/ PRIOR APPLICATION NUMBER: 60/101,012
/ PRIOR FILING DATE: 1998-09-18
/ PRIOR APPLICATION NUMBER: 60/118,578
/ PRIOR FILING DATE: 1999-02-05
/ PRIOR APPLICATION NUMBER: 60/142,766
/ PRIOR FILING DATE: 1999-07-08
/ PRIOR APPLICATION NUMBER: 09/397,992
/ PRIOR FILING DATE: 1999-09-16
/ NUMBER OF SEQ ID NOS: 33
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 7
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-971-843-7

Query Match          95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.2e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLQWLNQGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLQWLNQGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLAAKLAAADFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLEN 166
DB 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLEN 166

RESULT 5
US-09-403-532B-1
/ Sequence 1, Application US/09403532B
/ Patent No. 6572853
/ GENERAL INFORMATION:
/ APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
/ APPLICANT: Schneider-Presenius, Christian
/ APPLICANT: Otto, Bernd
/ APPLICANT: Maschutza, Gero
/ TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
/ FILE REFERENCE: 127-65050
/ CURRENT APPLICATION NUMBER: US/09/403,532B
/ CURRENT FILING DATE: 2000-02-22
/ PRIOR APPLICATION NUMBER: PCT/EP/98/02238
/ PRIOR FILING DATE: 1998-04-16
/ PRIOR APPLICATION NUMBER: DE 19717864.2
/ PRIOR FILING DATE: 1997-04-23
/ NUMBER OF SEQ ID NOS: 26
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 1
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-403-532B-1

Query Match          95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.2e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLQWLNQGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLQWLNQGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
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; APPLICATION NUMBER: US/08/406,030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,586
; FILING DATE: 03-DEC-1992
; APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TKT95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-030A-30

Query Match          95.6%; Score 829; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 7.4e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRNFDIPEIKQLQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRNFDIPEIKQLQFQKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLAAKLAAADFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141
QY 121 HLKRYGRILHYLKAKYSHCAWTIVRVEILRNFRINLTGYLRN 166
Db 142 HLKRYGRILHYLKAKYSHCAWTIVRVEILRNFRINLTGYLRN 187

RESULT 11
US-09-206-935-7
; Sequence 7, Application US/09206935
; Patent No. 6299877
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: 11669.500S05
; CURRENT APPLICATION NUMBER: US/09/206,935
; CURRENT FILING DATE: 1998-12-07
; EARLIER APPLICATION NUMBER: 60/084,045
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-206-935-7

Query Match          95.6%; Score 829; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 7.4e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRNFDIPEIKQLQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRNFDIPEIKQLQFQKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLAAKLAAADFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141
QY 121 HLKRYGRILHYLKAKYSHCAWTIVRVEILRNFRINLTGYLRN 166
Db 142 HLKRYGRILHYLKAKYSHCAWTIVRVEILRNFRINLTGYLRN 187

RESULT 12
US-09-206-936-7
; Sequence 7, Application US/09206936A
; Patent No. 6300475
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2 (filed)
; CURRENT APPLICATION NUMBER: US/09/202,122
; CURRENT FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match          95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 7.4e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 81

QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLAAKLAAADFTRGALMSSL 120
DB 82 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNRN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 7.4e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 81

QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLAAKLAAADFTRGALMSSL 120
DB 82 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNRN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match          95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 7.4e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 81

QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLAAKLAAADFTRGALMSSL 120
DB 82 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNRN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match          95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 7.4e-87;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 81
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QY	61	EMLQNI	FAIFRODSSSTGWN	ETIVENLLANVYH	QINHLKTVLAKLA	ADFTRGALMSSL	120
Db	82	EMLQNI	FAIFRODSSSTGWN	ETIVENLLANVYH	QINHLKTVLEEK	EDFTRGALMSSL	141
QY	121	HLKRYG	RIHLHYLKAK	EYSHCAW	TIVRVEIL	ENFYRINRLTG	YLRN 166
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Job time : 13.8 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds  
(without alignments)  
1391.307 Million cell updates/sec

Title: US-09-832-659A-54  
Perfect score: 867  
Sequence: 1 MSYNLLGFLQSSNFQCKL.....RVEILNFYRINRLTYLGN 166

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Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*\*

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- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US05\_NEW\_PUB.pep.\*
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- 17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	829	95.6	166	10	US-09-971-843-7
3	829	95.6	166	12	US-09-712-436-16
4	829	95.6	166	14	US-10-246-932-1
5	829	95.6	166	14	US-10-186-962-1
6	829	95.6	166	14	US-10-400-377-5
7	829	95.6	166	14	US-10-400-708-5
8	829	95.6	166	14	US-10-084-706-2
9	829	95.6	166	14	US-10-298-148-5
10	829	95.6	166	14	US-10-325-720-2
11	829	95.6	166	14	US-10-351-189-2
12	829	95.6	166	14	US-10-449-456-1
13	829	95.6	166	15	US-10-609-296-2
14	829	95.6	166	16	US-10-448-667-1
15	829	95.6	183	9	US-09-832-659-4

16	829	95.6	183	10	US-09-832-658-2	Sequence 2, Appli
17	829	95.6	186	12	US-10-449-831A-146	Sequence 146, App
18	829	95.6	187	9	US-09-788-552-1	Sequence 1, Appli
19	829	95.6	187	9	US-09-919-622A-9	Sequence 9, Appli
20	829	95.6	187	12	US-10-411-037-6	Sequence 6, Appli
21	829	95.6	187	12	US-09-881-050-17	Sequence 17, Appli
22	829	95.6	187	12	US-10-411-026-6	Sequence 6, Appli
23	829	95.6	187	13	US-10-004-201-2	Sequence 2, Appli
24	829	95.6	187	14	US-10-096-373-2	Sequence 2, Appli
25	829	95.6	187	14	US-10-418-038-9	Sequence 9, Appli
26	829	95.6	187	16	US-10-410-962-6	Sequence 6, Appli
27	829	95.6	187	16	US-10-411-049-6	Sequence 6, Appli
28	829	95.6	199	12	US-09-766-920B-11	Sequence 11, Appli
29	829	95.6	234	12	US-10-449-831A-192	Sequence 192, App
30	829	95.6	399	9	US-09-832-659-2	Sequence 2, Appli
31	827	95.4	166	12	US-10-035-420-1	Sequence 1, Appli
32	827	95.4	166	12	US-10-010-448-1	Sequence 1, Appli
33	826	95.3	187	9	US-09-927-850-7	Sequence 7, Appli
34	822	94.8	166	9	US-09-788-552-2	Sequence 2, Appli
35	820	94.6	418	9	US-09-832-659-42	Sequence 42, Appli
36	820	94.6	423	9	US-09-832-659-44	Sequence 44, Appli
37	819	94.5	166	14	US-10-246-932-2	Sequence 2, Appli
38	818	94.3	166	15	US-10-168-956A-1	Sequence 1, Appli
39	817	94.2	166	12	US-10-035-420-2	Sequence 2, Appli
40	817	94.2	166	12	US-10-010-448-2	Sequence 2, Appli
41	789	91.0	166	14	US-10-449-456-23	Sequence 23, Appli
42	789	91.0	166	16	US-10-448-667-23	Sequence 23, Appli
43	789	91.0	187	9	US-09-725-433-4	Sequence 4, Appli
44	789	91.0	187	14	US-10-284-740-12	Sequence 12, Appli
45	784	90.4	166	14	US-10-084-706-56	Sequence 56, Appli

#### ALIGNMENTS

#### RESULT 1

US-09-832-658-24  
; Sequence 24, Application US/09832658  
; Publication No. US20030021765A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; APPLICANT: Pepinsky, Blake  
; APPLICANT: Runkel, Laura  
; APPLICANT: Rickelmaier, Margot  
; APPLICANT: Whitty, Adrian  
; APPLICANT: Hochman, Paula  
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a  
; TITLE OF INVENTION: and Uses  
; FILE REFERENCE: A065PCT  
; CURRENT APPLICATION NUMBER: US/09/832,658  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/104,572  
; PRIOR FILING DATE: 1998-10-16  
; PRIOR APPLICATION NUMBER: 60/120,161  
; PRIOR FILING DATE: 1999-02-16  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: human  
US-09-832-658-24

Query Match	97.1%	Score 842,	DB 10;	Length 166;
Best Local Similarity	97.0%	Pred. No. 2,7e-82;		
Matches 161;	Conservative	0;	Mismatches 5;	Indels 0;
Gaps	0;			
Qy	1	MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPBEIKOLOQFOKEDALTYI	60	
Dd	1	MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPBEIKOLOQFOKEDALTYI	60	
Qy	61	EMLONTFAIPQDSSTGTNETIVENLLANVHQINHLKTVLAAKLAADFFRGALMSSL	120	

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Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Qy 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 95.6%; Score 829; DB 10; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 MSYNLLGFQORSNFQCKLLMQLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
Db 1 MSYNLLGFQORSNFQCKLLMQLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60

Qy 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLAALAAADFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGKINSSL 120

Qy 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Suhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT
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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match 95.6%; Score 829; DB 12; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 MSYNLLGFQORSNFQCKLLMQLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
Db 1 MSYNLLGFQORSNFQCKLLMQLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60

Qy 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLAALAAADFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGKLMSSL 120

Qy 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorraine
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PP18399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match 95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 MSYNLLGFQORSNFQCKLLMQLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
Db 1 MSYNLLGFQORSNFQCKLLMQLNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60

Qy 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLAALAAADFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGKLMSSL 120

Qy 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLKKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTUP, Joern
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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/ PRIOR APPLICATION NUMBER: 60/357,945
/ PRIOR FILING DATE: 2002-02-19
/ NUMBER OF SEQ ID NOS: 12
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 1
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-186-962-1

Query Match      95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQCFKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQCFKEDAAITY 60
QY 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
DB 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRVEILRNRYFINRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRVEILRNRYFINRLTGYLRN 166

RESULT 6
US-10-400-377-5
/ Sequence 5, Application US/10400377
/ Publication No. US20030162949A1
/ GENERAL INFORMATION:
/ APPLICANT: Cox III, George N
/ TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
/ FILE REFERENCE: 4152-1-PUS
/ CURRENT APPLICATION NUMBER: US/10/400,377
/ CURRENT FILING DATE: 2003-03-26
/ PRIOR APPLICATION NUMBER: US/09/462,941
/ PRIOR FILING DATE: 2000-01-14
/ PRIOR APPLICATION NUMBER: 60/052,516
/ PRIOR FILING DATE: 1997-07-14
/ NUMBER OF SEQ ID NOS: 41
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 5
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-400-377-5

Query Match      95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQCFKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQCFKEDAAITY 60
QY 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
DB 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRVEILRNRYFINRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRVEILRNRYFINRLTGYLRN 166

RESULT 6
US-10-400-377-5
/ Sequence 5, Application US/10400377
/ Publication No. US20030162949A1
/ GENERAL INFORMATION:
/ APPLICANT: Cox III, George N
/ TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
/ FILE REFERENCE: 4152-1-PUS
/ CURRENT APPLICATION NUMBER: US/10/400,377
/ CURRENT FILING DATE: 2003-03-26
/ PRIOR APPLICATION NUMBER: US/09/462,941
/ PRIOR FILING DATE: 2000-01-14
/ PRIOR APPLICATION NUMBER: 60/052,516
/ PRIOR FILING DATE: 1997-07-14
/ NUMBER OF SEQ ID NOS: 41
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 5
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-400-377-5

Query Match      95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQCFKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQCFKEDAAITY 60
QY 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
DB 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRVEILRNRYFINRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRVEILRNRYFINRLTGYLRN 166

RESULT 7
US-10-400-708-5
/ Sequence 5, Application US/10400708
/ Publication No. US20030168665A1
/ GENERAL INFORMATION:
/ APPLICANT: Cox III, George N
/ TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
/ FILE REFERENCE: 4152-1-PUS
/ CURRENT APPLICATION NUMBER: US/10/400,708
/ CURRENT FILING DATE: 2003-03-26
/ PRIOR APPLICATION NUMBER: US/09/462,941
/ PRIOR FILING DATE: 2000-01-14
/ PRIOR APPLICATION NUMBER: 60/052,516
/ PRIOR FILING DATE: 1997-07-14
/ NUMBER OF SEQ ID NOS: 41
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 5
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-400-708-5

Query Match      95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQCFKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQCFKEDAAITY 60
QY 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
DB 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRVEILRNRYFINRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRVEILRNRYFINRLTGYLRN 166

RESULT 7
US-10-400-708-5
/ Sequence 5, Application US/10400708
/ Publication No. US20030168665A1
/ GENERAL INFORMATION:
/ APPLICANT: Cox III, George N
/ TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
/ FILE REFERENCE: 4152-1-PUS
/ CURRENT APPLICATION NUMBER: US/10/400,708
/ CURRENT FILING DATE: 2003-03-26
/ PRIOR APPLICATION NUMBER: US/09/462,941
/ PRIOR FILING DATE: 2000-01-14
/ PRIOR APPLICATION NUMBER: 60/052,516
/ PRIOR FILING DATE: 1997-07-14
/ NUMBER OF SEQ ID NOS: 41
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 5
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-400-708-5

Query Match      95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQCFKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQCFKEDAAITY 60
QY 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
DB 61 EMLQNIFAIFRQDSSSTGWNTEIVENLLANVYHQLNKTVAALAAADFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRVEILRNRYFINRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTVIRVEILRNRYFINRLTGYLRN 166

RESULT 8
US-10-084-706-2
/ Sequence 2, Application US/10084706
/ Publication No. US20030170206A1
/ GENERAL INFORMATION:
/ APPLICANT: RASMUSSEN, Poul Baad
/ APPLICANT: DRUSTRUP, Jorn
/ APPLICANT: RASMUSSEN, Grethe
/ APPLICANT: PEDERSEN, Anders Hjelholt
/ APPLICANT: SCHAMBYE, Hans Thalsg+rd
/ APPLICANT: ANDERSEN, Kim Vilbour
/ APPLICANT: BORN, Claus
/ APPLICANT: Maxygen Aps
/ APPLICANT: Maxygen Holdings Ltd.
/ TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
/ FILE REFERENCE: 0238us410
/ CURRENT APPLICATION NUMBER: US/10/084,706
/ CURRENT FILING DATE: 2002-02-26
/ PRIOR APPLICATION NUMBER: US 60/272,116
/ PRIOR FILING DATE: 2001-02-27
/ PRIOR APPLICATION NUMBER: US 60/343,436
/ PRIOR FILING DATE: 2001-12-21
/ PRIOR APPLICATION NUMBER: US 60/302,140
/ PRIOR FILING DATE: 2001-06-29
/ PRIOR APPLICATION NUMBER: US 60/316,170
/ PRIOR FILING DATE: 2001-08-30
/ PRIOR APPLICATION NUMBER: not yet assigned
/ PRIOR FILING DATE: 2002-02-19
/ PRIOR APPLICATION NUMBER: DK PA 2001 00333
/ PRIOR FILING DATE: 2001-03-01
/ PRIOR APPLICATION NUMBER: US 09/648,569
/ PRIOR FILING DATE: 2000-08-25
/ NUMBER OF SEQ ID NOS: 57
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
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; NAME/KEY: CHAIN
; LOCATION: (1)....(166)
; OTHER INFORMATION: hifnb mature sequence
US-10-084-706-2

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSNFCQKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
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Db 1 MSYNLLGFLQRSNFCQKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
   |||||||

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLAAKLAADFTRGALMSSL 120
   |||||||
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
   |||||||

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166
   |||||||
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166
   |||||||

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSNFCQKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
   |||||||
Db 1 MSYNLLGFLQRSNFCQKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
   |||||||

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLAAKLAADFTRGALMSSL 120
   |||||||
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
   |||||||

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166
   |||||||
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166
   |||||||

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSNFCQKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
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Db 1 MSYNLLGFLQRSNFCQKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
   |||||||

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLAAKLAADFTRGALMSSL 120
   |||||||
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
   |||||||

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166
   |||||||
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166
   |||||||

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQRSNFCQKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
   |||||||
Db 1 MSYNLLGFLQRSNFCQKLLWQLNGRLCYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
   |||||||

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLAAKLAADFTRGALMSSL 120
   |||||||
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
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QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166
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Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166
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RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US20030186886A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
```

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; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-449-456-1

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 MSYNLLGFQRRSNFQCCKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Db 1 MSYNLLGFQRRSNFQCCKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Qy 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLAAKLAAADFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalesg+rd
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen AS
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; PRIOR FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFNB mature sequence
; US-10-609-296-2

Query Match          95.6%; Score 829; DB 15; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 MSYNLLGFQRRSNFQCCKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Db 1 MSYNLLGFQRRSNFQCCKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Qy 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLAAKLAAADFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-448-667-1

Query Match          95.6%; Score 829; DB 16; Length 166;
Best Local Similarity 95.8%; Pred. No. 6.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 MSYNLLGFQRRSNFQCCKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Db 1 MSYNLLGFQRRSNFQCCKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Qy 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLAAKLAAADFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFFINRLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US20020155547A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
; FILE REFERENCE: A084FCISEQ
; CURRENT APPLICATION NUMBER: US/09/832,659
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/120,237
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/104,491
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 4
; LENGTH: 183
; TYPE: PRT
; ORGANISM: murine
US-09-832-659-4

Query Match      95.6%; Score 829; DB 9; Length 183;
Best Local Similarity 95.8%; Pred. No. 7.8e-81;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db      18 MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 77
QY      61 EMLQNIFAIFRODSSSTGNETIVENLIANYHQINHLKTVLAAKLAADFTRGALMSSL 120
Db      78 EMLQNIFAIFRODSSSTGNETIVENLIANYHQINHLKTVLEEKLEKEDFTRGKLMSSL 137
QY      121 HLKRYVGRILHYLKAKKEYSHCAWTIVRVEILRNFYINRLTGYLRLN 166
Db      138 HLKRYIGRILHYLKAKKEYSHCAWTIVRVEILRNFYINRLTGYLRLN 183
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Search completed: May 19, 2004, 15:20:01  
Job time : 34.2 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 seconds  
(without alignments)  
669.524 Million cell updates/sec

Title: US-09-832-659A-53  
Perfect score: 865  
Sequence: 1 MSYNLLGLFQRSSNFQCKL.....RVEILRNFYRINRLTGYLRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.\*

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- 2: /cgm2\_6/ptodata/2/iaa/5B.COMB.pep.\*
- 3: /cgm2\_6/ptodata/2/iaa/6A.COMB.pep.\*
- 4: /cgm2\_6/ptodata/2/iaa/6B.COMB.pep.\*
- 5: /cgm2\_6/ptodata/2/iaa/PCTUS.COMB.pep.\*
- 6: /cgm2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	831	96.1	166	4	US-09-397-992A-7
2	831	96.1	166	4	US-09-569-722A-1
3	831	96.1	166	4	US-09-648-569A-2
4	831	96.1	166	4	US-09-971-843-7
5	831	96.1	166	4	US-09-403-532E-1
6	831	96.1	166	4	US-09-462-941-5
7	831	96.1	166	6	5514567-4
8	831	96.1	187	3	US-09-206-903A-9
9	831	96.1	187	3	US-08-406-030A-30
10	831	96.1	187	3	US-09-202-122-9
11	831	96.1	187	3	US-09-206-935-7
12	831	96.1	187	4	US-09-206-936-7
13	831	96.1	187	4	US-09-487-732-4
14	831	96.1	187	4	US-09-908-534-4
15	831	96.1	187	4	US-09-913-622A-9
16	831	96.1	187	6	5514567-1
17	831	96.1	415	4	US-09-215-212-14
18	829	95.8	166	2	US-08-477-310A-1
19	826	95.5	166	1	US-08-213-448-1
20	826	95.5	166	3	US-08-913-768-1
21	826	95.5	166	4	US-09-563-722A-4
22	826	95.5	166	4	US-09-569-722A-18
23	826	95.5	166	5	PCT-US95-03206-1
24	824	95.3	166	3	US-08-912-768-3
25	824	95.3	166	4	US-09-487-732-21
26	824	95.3	166	4	US-09-908-534-21
27	823	95.1	187	1	US-08-026-758-22

28	822	95.0	166	4	US-09-331-260-2	Sequence 2, Appli
29	821	94.9	166	4	US-09-569-722A-5	Sequence 5, Appli
30	814	94.1	187	6	5326889-1	Patent No. 5326889
31	812	93.9	166	4	US-09-569-722A-13	Sequence 13, Appli
32	812	93.9	166	4	US-09-569-722A-19	Sequence 19, Appli
33	807	93.3	166	4	US-09-569-722A-8	Sequence 8, Appli
34	807	93.3	166	4	US-09-569-722A-16	Sequence 16, Appli
35	805	93.1	166	4	US-09-569-722A-6	Sequence 6, Appli
36	804	92.9	166	4	US-09-569-722A-24	Sequence 24, Appli
37	802	92.7	166	4	US-09-569-722A-14	Sequence 14, Appli
38	801	92.6	166	4	US-09-569-722A-7	Sequence 7, Appli
39	801	92.6	166	4	US-09-569-722A-12	Sequence 12, Appli
40	801	92.6	166	4	US-09-569-722A-17	Sequence 17, Appli
41	800	92.5	166	4	US-09-569-722A-22	Sequence 22, Appli
42	799	92.4	166	4	US-09-569-722A-15	Sequence 15, Appli
43	796	92.0	166	4	US-09-569-722A-20	Sequence 20, Appli
44	795	91.9	166	4	US-09-569-722A-11	Sequence 11, Appli
45	794	91.8	166	4	US-09-569-722A-23	Sequence 23, Appli

ALIGNMENTS

RESULT 1  
US-09-397-992A-7  
; Sequence 7, Application US/09397992A  
; Patent No. 6329175  
; GENERAL INFORMATION:  
; APPLICANT: Conklin, Darrell  
; APPLICANT: Grant, Francis J.  
; APPLICANT: Rixon, Mark W.  
; APPLICANT: Kindesvogel, Wayne  
; TITLE OF INVENTION: Interferon-epsilon  
; FILE REFERENCE: 98-46  
; CURRENT APPLICATION NUMBER: US/09/397,992A  
; CURRENT FILING DATE: 1999-09-16  
; PRIOR APPLICATION NUMBER: 60/101,012  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/118,578  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/142,766  
; PRIOR FILING DATE: 1999-07-08  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-397-992A-7

Query Match 96.1%; Score 831; DB 4; Length 166;  
Best Local Similarity 96.4%; Pred. No. 5.3e-84;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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Db	1	MSYNLLGFTQSRNSFCQCKLLMQLNGRLCYCLKRMNFDPPEIKQLQFQKEDAAITY	60
QY	61	EMLQNIFFAFRODSSTGWNTEIVENLLANVAHQAHLAAVLEEKLEKEDPTFGALMSSL	120
Db	61	EMLQNIFFAFRODSSTGWNTEIVENLLANVAHQAHLAAVLEEKLEKEDPTFGALMSSL	120
QY	121	HLKRYGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN	166
Db	121	HLKRYGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN	166

RESULT 2  
US-09-569-722A-1  
; Sequence 1, Application US/09569722A  
; Patent No. 6514729  
; GENERAL INFORMATION:  
; APPLICANT: Bentrrien, Joerg M

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; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
; FILE REFERENCE: A-68059-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/569,722A
; PRIOR FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: US 60/133,785
; PRIOR FILING DATE: 1999-05-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match          96.1%; Score 831; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGGRILHYLKAKESHCATIVRVEILNRYINRLTGVLN 166
Db 121 HLKRYGGRILHYLKAKESHCATIVRVEILNRYINRLTGVLN 166

RESULT 3
US-09-648-569A-2
; Sequence 2, Application US/09648569A
; Patent No. 6531122
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us810
; CURRENT APPLICATION NUMBER: US/09/648,569A
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-648-569A-2

Query Match          96.1%; Score 831; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGGRILHYLKAKESHCATIVRVEILNRYINRLTGVLN 166
Db 121 HLKRYGGRILHYLKAKESHCATIVRVEILNRYINRLTGVLN 166

RESULT 4
US-09-971-843-7
; Sequence 7, Application US/09971843
; Patent No. 6544505
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
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; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvoegel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match          96.1%; Score 831; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGGRILHYLKAKESHCATIVRVEILNRYINRLTGVLN 166
Db 121 HLKRYGGRILHYLKAKESHCATIVRVEILNRYINRLTGVLN 166

RESULT 5
US-09-403-532E-1
; Sequence 1, Application US/09403532E
; Patent No. 6572853
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Maschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/09/403,532E
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-403-532E-1

Query Match          96.1%; Score 831; DB 4; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60
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Db	61	EMLQNI	FAIF	QDSS	STGN	TTI	VEN	L	AN	V	AQ	I	A	H	A	L	A	V	E	K	E	D	F	T	R	G	A	L	M	S	L	120			
Qy	121	HLKRYG	IGIL	HYL	K	A	K	E	T	S	H	C	A	W	T	I	V	R	E	I	L	R	N	F	Y	I	N	R	L	T	G	Y	R	N	166
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RESULT 6
US-09-462-941-5
/ Sequence 5, Application US/09462941
/ Patent No. 6008183
/ GENERAL INFORMATION:
/ APPLICANT: Cox III, George N
/ APPLICANT: Boldor Biotechnology, Inc.
/ TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
/ FILE REFERENCE: 4152-1-PUS
/ CURRENT APPLICATION NUMBER: US/09/462,941
/ CURRENT FILING DATE: 2000-01-14
/ PRIOR APPLICATION NUMBER: 60/052,516
/ PRIOR FILING DATE: 1997-07-14
/ NUMBER OF SEQ ID NOS: 41
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 5
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-462-941-5

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RESULT 7
5514567-4
;Patent No. 5514567
;APPLICANT: SUGANO, HARUO;MURAMATSU, MASAMI;TANIGUCHI,
;TADATSUGU
;TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID
;CURRENT APPLICATIONS: 5
;CURRENT APPLICATION DATA:
;APPLICATION NUMBER: US/08/400,179
;FILING DATE: 06-MAR-1995
;PRIOR APPLICATION DATA:
;APPLICATION NUMBER: 389,922
;FILING DATE: 18-JUN-1982
;APPLICATION NUMBER: 201,359
;FILING DATE: 27-OCT-1980
;SEQ ID NO:4:
;LENGTH: 166
5514567-4

Best Match          96.1%; Score 831; DB 6; Length 166;
Query Local Similarity 96.4%; Pred. No. 5.3e-84;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY      1  MSYNLLGFLQRSSNFCQCKLWLNGLRLEYCLKDRNMFPIPEIKOQOFKXEDAAITY 60
DB      1  MSYNLLGFLQRSSNFCQCKLWLNGLRLEYCLKDRNMFPIPEIKOQOFKXEDAAITY 60

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Qy	61	EWLQNI	FAI	PRODSS	TGNNET	IVEN	L	AN	VA	QI	TA	HA	LV	AE	K	ED	FR	G	AL	M	S	L	120
Db	61	EWLQNI	FAI	PRODSS	TGNNET	IVEN	L	AN	VA	QI	TA	HA	LV	AE	K	ED	FR	G	AL	M	S	L	120
Qy	121	HLKYY	GR	I	L	HY	L	K	A	K	E	S	H	C	A	M	T	I	V	R	B	I	166
Db	121	HLKYY	GR	I	L	HY	L	K	A	K	E	S	H	C	A	M	T	I	V	R	B	I	166

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RESULT 8
US-09-206-903A-9
/ Sequence 9, Application US/09206903A
/ Patent No. 6200780
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Jian
/ APPLICANT: Godowski, Paul J.
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Dong-Xiao
/ TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
/ FILE REFERENCE: PI224-2R1
/ CURRENT APPLICATION NUMBER: US/09/206,903A
/ CURRENT FILING DATE: 1998-12-07
/ PRIOR APPLICATION NUMBER: US 60/106,463
/ PRIOR FILING DATE: 1998-10-30
/ NUMBER OF SEQ ID NOS: 12
/ SEQ ID NO 9
/ LENGTH: 187
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-206-903A-9

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RESULT 9  
 US-08-406-030A-30  
 Sequence 30, Application US/08406030A  
 Patent No. 6370989  
 GENERAL INFORMATION:  
 APPLICANT: Treco, Douglas A.  
 APPLICANT: Heartlein, Michael W.  
 APPLICANT: Hauge, Brian M.  
 APPLICANT: Selden, Richard F.  
 TITLE OF INVENTION: Protein Production and Delivery  
 NUMBER OF SEQUENCES: 30  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
 STREET: Two Militia Drive  
 City: Lexington  
 STATE: Massachusetts  
 COUNTRY: USA  
 ZIP: 02173  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/406,030A  
FILING DATE: 17-MAR-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/243,391  
FILING DATE: 13-MAY-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/985,586  
FILING DATE: 03-DEC-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/911,533  
FILING DATE: 10-JUL-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/787,840  
FILING DATE: 05-NOV-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/789,188  
FILING DATE: 05-NOV-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US93/11704  
FILING DATE: 02-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US92/09627  
FILING DATE: 05-NOV-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Granahan, Patricia  
REGISTRATION NUMBER: 32,227  
REFERENCE/DOCKET NUMBER: TKT95-01  
TELEPHONE: (617) 861-6240  
TELEFAX: (617) 861-9540  
INFORMATION FOR SEQ ID NO: 30:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 187 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-406-030A-30

Query Match 96.1%; Score 831; DB 3; Length 187;  
Best Local Similarity 96.4%; Pred. No. 6.2e-84;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60  
DB 22 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81  
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120  
DB 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 141  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166  
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 187

RESULT 10  
US-09-202-122-9  
Sequence 9, Application US/09202122  
Patent No. 6259869  
GENERAL INFORMATION:  
APPLICANT: Chen, Jian  
APPLICANT: Godowski, Paul  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Dong-Xiao  
TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON  
FILE REFERENCE: P1224R2 (filed)  
CURRENT APPLICATION NUMBER: US/09/202,122  
CURRENT FILING DATE: 1999-03-04  
PRIOR APPLICATION NUMBER: PCT/US98/25672  
PRIOR FILING DATE: 1998-12-03  
NUMBER OF SEQ ID NOS: 12  
SEQ ID NO 9

LENGTH: 187  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-202-122-9  
Query Match 96.1%; Score 831; DB 3; Length 187;  
Best Local Similarity 96.4%; Pred. No. 6.2e-84;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60  
DB 22 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81  
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120  
DB 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 141  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166  
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 187

RESULT 11  
US-09-206-935-7  
Sequence 7, Application US/09206935  
Patent No. 6259877  
GENERAL INFORMATION:  
APPLICANT: Chen, Jian  
APPLICANT: Godowski, Paul  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Dong-Xiao  
TITLE OF INVENTION: NOVEL TYPE I INTERFERONS  
FILE REFERENCE: 11669-50US05  
CURRENT APPLICATION NUMBER: US/09/206,935  
CURRENT FILING DATE: 1998-12-07  
EARLIER APPLICATION NUMBER: 60/084,045  
EARLIER FILING DATE: 1998-05-04  
NUMBER OF SEQ ID NOS: 24  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 7  
LENGTH: 187  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-206-935-7

Query Match 96.1%; Score 831; DB 3; Length 187;  
Best Local Similarity 96.4%; Pred. No. 6.2e-84;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60  
DB 22 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81  
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120  
DB 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 141  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166  
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 187

RESULT 12  
US-09-206-936-7  
Sequence 7, Application US/09206936A  
Patent No. 6300475  
GENERAL INFORMATION:  
APPLICANT: Chen, Jian  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Dong-Xiao  
TITLE OF INVENTION: NOVEL TYPE I INTERFERONS  
FILE REFERENCE: P1224R1  
CURRENT APPLICATION NUMBER: US/09/206,936A  
CURRENT FILING DATE: 1998-12-07

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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-206-936-7

Query Match
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  Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 81

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVAHQIAHLAAVLEBKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGKLMSSL 141

QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 142 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-487-792-4

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  Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 81

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVAHQIAHLAAVLEBKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGKLMSSL 141

QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 142 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-908-594-4

Query Match
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  Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 81

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVAHQIAHLAAVLEBKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGKLMSSL 141

QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 142 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-919-622A-9

Query Match
  Best Local Similarity 96.1%; Score 831; DB 4; Length 187;
  Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 81
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QY 61 EMLQIFAIIFRODSSSTGNETIVENLLANVAHQIAHAAVLEBKLEKEDFTRGALMSSL 120  
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Db |||||  
QY 121 HLKRYIGRILHYLKAKEYSHCAWTIVRVEILNRYFINRLTGYLEN 166  
Db |||||  
QY 142 HLKRYIGRILHYLKAKEYSHCAWTIVRVEILNRYFINRLTGYLEN 187  
Db |||||

Search completed: May 19, 2004, 14:26:12  
Job time : 12.8 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds  
(without alignments)  
1391.307 Million cell updates/sec

Title: US-09-832-659A-53

Perfect score: 865

Sequence: 1 MSYNLLGFLQSSNFQCKL.....RVEILRNFYRINRLTYGRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/2/pubpaa/FCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
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- 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
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- 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
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- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US10\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	844	97.6	166	10	US-09-832-658-24
2	831	96.1	166	10	US-09-971-843-7
3	831	96.1	166	12	US-09-732-436-16
4	831	96.1	166	14	US-10-246-932-1
5	831	96.1	166	14	US-10-186-962-1
6	831	96.1	166	14	US-10-400-377-5
7	831	96.1	166	14	US-10-400-708-5
8	831	96.1	166	14	US-10-084-706-2
9	831	96.1	166	14	US-10-298-148-5
10	831	96.1	166	14	US-10-325-720-2
11	831	96.1	166	14	US-10-351-189-2
12	831	96.1	166	14	US-10-449-456-1
13	831	96.1	166	15	US-10-603-296-2
14	831	96.1	166	16	US-10-448-667-1
15	831	96.1	183	9	US-09-832-659-4

16	831	96.1	183	10	US-09-832-658-2	Sequence 2, Appli
17	831	96.1	186	12	US-10-449-831A-146	Sequence 146, App
18	831	96.1	187	9	US-09-788-552-1	Sequence 1, Appli
19	831	96.1	187	9	US-09-919-622A-9	Sequence 9, Appli
20	831	96.1	187	12	US-10-411-037-6	Sequence 6, Appli
21	831	96.1	187	12	US-09-881-050-17	Sequence 17, Appli
22	831	96.1	187	12	US-10-411-026-6	Sequence 6, Appli
23	831	96.1	187	13	US-10-004-201-2	Sequence 2, Appli
24	831	96.1	187	14	US-10-096-373-2	Sequence 2, Appli
25	831	96.1	187	14	US-10-418-038-9	Sequence 9, Appli
26	831	96.1	187	16	US-10-410-962-6	Sequence 6, Appli
27	831	96.1	187	16	US-10-411-049-6	Sequence 6, Appli
28	831	96.1	199	12	US-09-766-920B-11	Sequence 11, Appli
29	831	96.1	234	12	US-10-449-831A-192	Sequence 192, App
30	831	96.1	399	9	US-09-832-659-2	Sequence 2, Appli
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32	829	95.8	166	12	US-10-010-448-1	Sequence 1, Appli
33	828	95.7	187	9	US-09-927-850-7	Sequence 7, Appli
34	824	95.3	166	9	US-09-788-552-2	Sequence 2, Appli
35	824	95.3	166	10	US-09-832-658-28	Sequence 28, Appli
36	822	95.0	418	9	US-09-832-659-42	Sequence 42, Appli
37	822	95.0	423	9	US-09-832-659-44	Sequence 44, Appli
38	821	94.9	166	14	US-10-246-932-2	Sequence 2, Appli
39	820	94.8	166	15	US-10-168-956A-1	Sequence 1, Appli
40	819	94.7	166	12	US-10-035-420-2	Sequence 2, Appli
41	819	94.7	166	12	US-10-010-448-2	Sequence 2, Appli
42	791	91.4	166	14	US-10-449-456-23	Sequence 23, Appli
43	791	91.4	166	16	US-10-448-667-23	Sequence 23, Appli
44	791	91.4	187	9	US-09-725-433-4	Sequence 4, Appli
45	791	91.4	187	14	US-10-284-740-12	Sequence 12, Appli

ALIGNMENTS

RESULT 1

US-09-832-658-24  
; Sequence 24. Application US/09832658  
; Publication NO. US20030021765A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; APPLICANT: Pepinsky, Blake  
; APPLICANT: Runkel, Laura  
; APPLICANT: Brickelmaier, Margot  
; APPLICANT: Whitty, Adrian  
; APPLICANT: Hochman, Paula  
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a  
; FILE REFERENCE: and Uses  
; FILE REFERENCE: A065PCT  
; CURRENT APPLICATION NUMBER: US/09/832,658  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/104,572  
; PRIOR FILING DATE: 1998-10-16  
; PRIOR APPLICATION NUMBER: 60/120,161  
; PRIOR FILING DATE: 1999-02-16  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: human  
US-09-832-658-24

Query Match 97.6%; Score 844; DB 10; Length 166;  
Best Local Similarity 97.6%; Pred. No. 2.3e-81;  
Matches 162; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy	1	MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRNFPIPEIKLQFOQKEDALTYI	60
Db	1	MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRNFPIPEIKLQFOQKEDALTYI	60
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Db 121 HLKRYGRIHLHLKAKYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 96.1%; Score 831; DB 10; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
Qy 61 EMLQNIFAIPRODSSSTGNETIVENLLANVAHQIAHLAAVLBEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Qy 121 HLKRYGRIHLHLKAKYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLHLKAKYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Pravaga, Subhirdas K
; APPLICANT: Shinkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT
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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match 96.1%; Score 831; DB 12; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
Qy 61 EMLQNIFAIPRODSSSTGNETIVENLLANVAHQIAHLAAVLBEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Qy 121 HLKRYGRIHLHLKAKYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLHLKAKYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorraine
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PFI8399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match 96.1%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
Qy 61 EMLQNIFAIPRODSSSTGNETIVENLLANVAHQIAHLAAVLBEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Qy 121 HLKRYGRIHLHLKAKYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRIHLHLKAKYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DEUSTRUP, Joern
; APPLICANT: Maxygen ApS
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          96.1%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYINRLTYLGN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYINRLTYLGN 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; PRIOR FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          96.1%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYINRLTYLGN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYINRLTYLGN 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US2003016865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; PRIOR FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          96.1%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANVAHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYINRLTYLGN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYINRLTYLGN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thaisg+rd
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: CHAIN  
; LOCATION: (1)...(166)  
; OTHER INFORMATION: h1PNB mature sequence  
US-10-084-706-2

Query Match 96.1%; Score 831; DB 14; Length 166;  
Best Local Similarity 96.4%; Pred. No. 5.5e-80;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEEIKOLOQFQKEDAAITTY 60  
Db 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEEIKOLOQFQKEDAAITTY 60  
Qy 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120  
Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFIINLTGYLRN 166  
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFIINLTGYLRN 166

RESULT 9  
US-10-298-148-5  
; Sequence 5, Application US/10298148  
; Publication No. US20030171284A1  
; GENERAL INFORMATION:  
; APPLICANT: Cox III, George N  
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins  
; FILE REFERENCE: 4152-1-PUS  
; CURRENT APPLICATION NUMBER: US/10/298,148  
; CURRENT FILING DATE: 2002-11-15  
; PRIOR APPLICATION NUMBER: US/09/462,941  
; PRIOR FILING DATE: 2000-01-14  
; PRIOR APPLICATION NUMBER: 60/052,516  
; PRIOR FILING DATE: 1997-07-14  
; NUMBER OF SEQ ID NOS: 41  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-298-148-5

Query Match 96.1%; Score 831; DB 14; Length 166;  
Best Local Similarity 96.4%; Pred. No. 5.5e-80;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEEIKOLOQFQKEDAAITTY 60  
Db 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEEIKOLOQFQKEDAAITTY 60  
Qy 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120  
Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFIINLTGYLRN 166  
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFIINLTGYLRN 166

RESULT 10  
US-10-325-720-2  
; Sequence 2, Application US/10325720  
; Publication No. US20030175240A1  
; GENERAL INFORMATION:  
; APPLICANT: Pedersen, A.H., et al.  
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates  
; FILE REFERENCE: 0202us820  
; CURRENT APPLICATION NUMBER: US/10/325,720  
; CURRENT FILING DATE: 2002-12-19

; PRIOR APPLICATION NUMBER: US 09/648,569  
; PRIOR FILING DATE: 2000-08-25  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-325-720-2

Query Match 96.1%; Score 831; DB 14; Length 166;  
Best Local Similarity 96.4%; Pred. No. 5.5e-80;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEEIKOLOQFQKEDAAITTY 60  
Db 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEEIKOLOQFQKEDAAITTY 60  
Qy 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120  
Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFIINLTGYLRN 166  
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFIINLTGYLRN 166

RESULT 11  
US-10-351-189-2  
; Sequence 2, Application US/10351189  
; Publication No. US20030175241A1  
; GENERAL INFORMATION:  
; APPLICANT: Pedersen, A.H., et al.  
; APPLICANT: Maxygen Aps  
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates  
; FILE REFERENCE: 0202us830  
; CURRENT APPLICATION NUMBER: US/10/351,189  
; CURRENT FILING DATE: 2003-01-24  
; PRIOR APPLICATION NUMBER: US 09/648,569  
; PRIOR FILING DATE: 2000-08-25  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-351-189-2

Query Match 96.1%; Score 831; DB 14; Length 166;  
Best Local Similarity 96.4%; Pred. No. 5.5e-80;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEEIKOLOQFQKEDAAITTY 60  
Db 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRNFDIPEEIKOLOQFQKEDAAITTY 60  
Qy 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120  
Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFIINLTGYLRN 166  
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFIINLTGYLRN 166

RESULT 12  
US-10-449-456-1  
; Sequence 1, Application US/10449456  
; Publication No. US20030186886A1  
; GENERAL INFORMATION:  
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan  
; APPLICANT: Schneider-Fresenius, Christian  
; APPLICANT: Otto, Bernd

```
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          96.1%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQFKEDAAITTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQFKEDAAITTY 60

QY 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTUP, Joun
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsg+rd
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORNES, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: h1FNB mature sequence
US-10-609-296-2

Query Match          96.1%; Score 831; DB 15; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQFKEDAAITTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQFKEDAAITTY 60

QY 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          96.1%; Score 831; DB 16; Length 166;
Best Local Similarity 96.4%; Pred. No. 5.5e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQFKEDAAITTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQFKEDAAITTY 60

QY 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRDSSSTGWNTEIVENLLANVAHQIAHLAAVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US20020155547A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses  
; FILE REFERENCE: A064PCTSEQ  
; CURRENT APPLICATION NUMBER: US/09/832,659  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/120,237  
; PRIOR FILING DATE: 1999-02-16  
; PRIOR APPLICATION NUMBER: 60/104,491  
; PRIOR FILING DATE: 1998-10-16  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 183  
; TYPE: PRT  
; ORGANISM: murine  
US-09-832-659-4

Query Match 96.1%; Score 831; DB 9; Length 183;  
Best Local Similarity 96.4%; Pred. No. 6,3e-80;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQCFQKEDALTIY 60  
DB 18 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQCFQKEDALTIY 77  
QY 61 EMLQNFALFRQDSSSTGNETIVENLLANYVAHQIAHLAAVLEKLEKEDFTRGALMSSL 120  
DB 78 EMLQNFALFRQDSSSTGNETIVENLLANYVHQINHLKTVLEKLEKEDFTRGKLMSSL 137  
QY 121 HLKRYGRIHLHLKAKYSHCAWTIVRVEILRNFYRINRLTGYLRLN 166  
DB 138 HLKRYGRIHLHLKAKYSHCAWTIVRVEILRNFYRINRLTGYLRLN 183

Search completed: May 19, 2004, 15:20:00  
Job time : 33.2 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 Seconds  
(without alignments)  
669.524 Million cell updates/sec

Title: US-09-832-659A-52  
Perfect score: 867  
Sequence: 1 MSYNLGFLORSSNFQCKL.....RVEILNRYINRLTGYLRN 166

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/protdata/2/iaa/5A-COMB.pep:\*  
2: /cgn2\_6/protdata/2/iaa/5B-COMB.pep:\*  
3: /cgn2\_6/protdata/2/iaa/5A-COMB.pep:\*  
4: /cgn2\_6/protdata/2/iaa/5B-COMB.pep:\*  
5: /cgn2\_6/protdata/2/iaa/PCTUS-COMB.pep:\*  
6: /cgn2\_6/protdata/2/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	832	96.0	166	US-09-397-992A-7	Sequence 7, Appli
2	832	96.0	166	US-09-569-722A-1	Sequence 1, Appli
3	832	96.0	166	US-09-648-569A-2	Sequence 2, Appli
4	832	96.0	166	US-09-971-843-7	Sequence 7, Appli
5	832	96.0	166	US-09-403-532E-1	Sequence 1, Appli
6	832	96.0	166	US-09-462-941-5	Sequence 5, Appli
7	832	96.0	166	5514567-4	Patent No. 5514567
8	832	96.0	187	US-09-206-903A-9	Sequence 9, Appli
9	832	96.0	187	US-08-406-030A-30	Sequence 30, Appli
10	832	96.0	187	US-09-202-122-9	Sequence 9, Appli
11	832	96.0	187	US-09-206-935-7	Sequence 7, Appli
12	832	96.0	187	US-09-206-936-7	Sequence 7, Appli
13	832	96.0	187	US-09-487-792-4	Sequence 4, Appli
14	832	96.0	187	US-09-908-594-4	Sequence 4, Appli
15	832	96.0	187	US-09-919-622A-9	Sequence 9, Appli
16	832	96.0	187	5514567-1	Patent No. 5514567
17	832	96.0	415	US-09-215-212-14	Sequence 14, Appli
18	830	95.7	166	US-08-477-310A-1	Sequence 1, Appli
19	827	95.4	166	US-08-213-448-1	Sequence 1, Appli
20	827	95.4	166	US-08-912-768-1	Sequence 1, Appli
21	827	95.4	166	US-09-569-722A-4	Sequence 4, Appli
22	827	95.4	166	US-09-569-722A-18	Sequence 18, Appli
23	827	95.4	166	PCT-US95-03206-1	Sequence 1, Appli
24	827	95.4	187	US-08-912-768-3	Sequence 3, Appli
25	825	95.2	166	US-09-487-792-21	Sequence 21, Appli
26	825	95.2	166	US-09-908-594-21	Sequence 21, Appli
27	824	95.0	187	US-08-026-758-22	Sequence 22, Appli

## ALIGNMENTS

## RESULT 1

US-09-397-992A-7  
; Sequence 7, Application US/09397992A  
; Patent No. 6323175  
; GENERAL INFORMATION:  
; APPLICANT: Conklin, Darrell  
; APPLICANT: Grant, Francis J.  
; APPLICANT: Rixon, Mark W.  
; APPLICANT: Kindsvogel, Wayne  
; TITLE OF INVENTION: Interferon-epsilon  
; FILE REFERENCE: 98-46  
; CURRENT APPLICATION NUMBER: US/09/397,992A  
; CURRENT FILING DATE: 1999-09-16  
; PRIOR APPLICATION NUMBER: 60/101,012  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/118,578  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/142,766  
; PRIOR FILING DATE: 1999-07-08  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FASTSEQ for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-397-992A-7

Query Match 96.0%; Score 832; DB 4; Length 166;  
Best Local Similarity 95.8%; Pred. No. 3e-83;  
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy	1	MSYNLGFLORSSNFQCKLWQLNGLEYCLKDRMNFDP	PEIKOLOQFOKEDALTYI	60
Db	1	MSYNLGFLORSSNFQCKLWQLNGLEYCLKDRMNFDP	PEIKOLOQFOKEDALTYI	60
Qy	61	EMLQNIFAIPROSSSTGWNASTVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL	120	
Db	61	EMLQNIFAIPROSSSTGWNASTVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL	120	
Qy	121	HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN	166	
Db	121	HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN	166	

## RESULT 2

US-09-569-722A-1  
; Sequence 1, Application US/09569722A  
; Patent No. 6514729  
; GENERAL INFORMATION:  
; APPLICANT: Bentzien, Joerg M

Sequence 2, Appli  
Sequence 5, Appli  
Patent No. 5326859  
Sequence 13, Appli  
Sequence 19, Appli  
Sequence 8, Appli  
Sequence 16, Appli  
Sequence 6, Appli  
Sequence 24, Appli  
Sequence 14, Appli  
Sequence 7, Appli  
Sequence 12, Appli  
Sequence 17, Appli  
Sequence 22, Appli  
Sequence 15, Appli  
Sequence 20, Appli  
Sequence 11, Appli  
Sequence 23, Appli

28	823	94.9	166	4	US-09-331-260-2
29	822	94.8	166	4	US-09-569-722A-5
30	815	94.0	187	6	5326859-1
31	813	93.8	166	4	US-09-569-722A-13
32	813	93.8	166	4	US-09-569-722A-19
33	808	93.2	166	4	US-09-569-722A-9
34	808	93.0	166	4	US-09-569-722A-16
35	806	93.0	166	4	US-09-569-722A-6
36	805	92.8	166	4	US-09-569-722A-24
37	803	92.6	166	4	US-09-569-722A-14
38	802	92.5	166	4	US-09-569-722A-7
39	802	92.5	166	4	US-09-569-722A-12
40	802	92.5	166	4	US-09-569-722A-17
41	801	92.4	166	4	US-09-569-722A-22
42	800	92.3	166	4	US-09-569-722A-15
43	797	91.9	166	4	US-09-569-722A-20
44	796	91.8	166	4	US-09-569-722A-11
45	795	91.7	166	4	US-09-569-722A-23

; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY  
; FILE REFERENCE: A-68059-1/RFT/RMS/RMK  
; CURRENT APPLICATION NUMBER: US/09/569,722A  
; CURRENT FILING DATE: 2000-08-11  
; PRIOR APPLICATION NUMBER: US 60/133,785  
; PRIOR FILING DATE: 1999-08-12  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-569-722A-1

Query Match 96.0%; Score 832; DB 4; Length 166;  
Best Local Similarity 95.8%; Pred. No. 3e-83;  
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60  
DB 1 MSYNLLGFLQSSNFQCCQKLLWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60  
QY 61 EMLQNIFAIFRODSSSTGNASIVAAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIFRODSSSTGNWETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166  
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166

RESULT 3  
US-09-648-569A-2

; Sequence 2, Application US/09648569A  
; Patent No. 6531122

; GENERAL INFORMATION:

; APPLICANT: Pedersen, A.H., et al.

; APPLICANT: Maxygen Aps

; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates

; FILE REFERENCE: 0202us810

; CURRENT APPLICATION NUMBER: US/09/648,569A

; CURRENT FILING DATE: 2000-08-25

; NUMBER OF SEQ ID NOS: 45

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 2

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-648-569A-2

Query Match 96.0%; Score 832; DB 4; Length 166;  
Best Local Similarity 95.8%; Pred. No. 3e-83;  
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60  
DB 1 MSYNLLGFLQSSNFQCCQKLLWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60  
QY 61 EMLQNIFAIFRODSSSTGNASIVAAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIFRODSSSTGNWETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166  
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166

RESULT 4

US-09-971-843-7

; Sequence 7, Application US/09971843

; Patent No. 6544505

; GENERAL INFORMATION:

; APPLICANT: Conklin, Darrell C.

; APPLICANT: Grant, Francis J.  
; APPLICANT: Bixon, Mark W.  
; APPLICANT: Kindsvogel, Wayne  
; TITLE OF INVENTION: Interferon-epsilon  
; FILE REFERENCE: 98-46D1  
; CURRENT APPLICATION NUMBER: US/09/971,843  
; CURRENT FILING DATE: 2001-10-04  
; PRIOR APPLICATION NUMBER: 60/101,012  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/118,578  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/142,766  
; PRIOR FILING DATE: 1999-07-08  
; PRIOR APPLICATION NUMBER: 09/397,992  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-971-843-7

Query Match 96.0%; Score 832; DB 4; Length 166;  
Best Local Similarity 95.8%; Pred. No. 3e-83; 5; Indels 0; Gaps 0;  
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60  
DB 1 MSYNLLGFLQSSNFQCCQKLLWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60  
QY 61 EMLQNIFAIFRODSSSTGNASIVAAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIFRODSSSTGNWETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166  
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRN 166

RESULT 5

US-09-403-532E-1

; Sequence 1, Application US/09403532E

; Patent No. 6572853

; GENERAL INFORMATION:

; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand

; APPLICANT: Schneider-Fresenius, Christian

; APPLICANT: Otto, Bernd

; APPLICANT: Waschutz, Gero

; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY

; FILE REFERENCE: 127-65050

; CURRENT APPLICATION NUMBER: US/09/403,532E

; CURRENT FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: PCT/EP/98/02238

; PRIOR FILING DATE: 1998-04-16

; PRIOR APPLICATION NUMBER: DE 19717864.2

; PRIOR FILING DATE: 1997-04-23

; NUMBER OF SEQ ID NOS: 26

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 1

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-403-532E-1

Query Match 96.0%; Score 832; DB 4; Length 166;  
Best Local Similarity 95.8%; Pred. No. 3e-83;  
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60  
DB 1 MSYNLLGFLQSSNFQCCQKLLWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166  
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

## RESULT 6

US-09-462-941-5  
Sequence 5, Application US/09462941

Patent No. 6608183

GENERAL INFORMATION:

APPLICANT: Cox III, George N

APPLICANT: Bolder Biotechnology, Inc.

TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins

FILE REFERENCE: 4152-1-PUS

CURRENT APPLICATION NUMBER: US/09/462,941

PRIOR FILING DATE: 2000-01-14

PRIOR APPLICATION NUMBER: 60/052,516

PRIOR FILING DATE: 1997-07-14

NUMBER OF SEQ ID NOS: 41

SOFTWARE: Patent In Ver. 2.0

SEQ ID NO 5

LENGTH: 166

TYPE: PRT

ORGANISM: Homo sapiens

US-09-462-941-5

Query Match

Best Local Similarity 96.0%; Score 832; DB 4; Length 166;

Mismatches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 60  
DB 1 MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 60

QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120

DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

## RESULT 7

5514567-4

Patent No. 5514567

APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,

TADATSUGU

TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID

NUMBER OF SEQUENCES: 5

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/400,179

FILING DATE: 06-MAR-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 389,922

FILING DATE: 18-JUN-1982

APPLICATION NUMBER: 201,359

FILING DATE: 27-OCT-1980

SEQ ID NO: 4;

LENGTH: 166

5514567-4

Query Match

Best Local Similarity 96.0%; Score 832; DB 6; Length 166;

Mismatches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 60  
DB 1 MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 60

QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166  
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

## RESULT 8

US-09-206-903A-9

Sequence 9, Application US/09206903A

Patent No. 6200780

GENERAL INFORMATION:

APPLICANT: Chen, Jian

APPLICANT: Godowski, Paul J.

APPLICANT: Wood, William I.

APPLICANT: Zhang, Dong-Xiao

TITLE OF INVENTION: NOVEL TYPE I INTERFERONS

FILE REFERENCE: P1224-2R1

CURRENT APPLICATION NUMBER: US/09/206,903A

CURRENT FILING DATE: 1998-12-07

PRIOR APPLICATION NUMBER: US 60/106,463

PRIOR FILING DATE: 1998-10-30

NUMBER OF SEQ ID NOS: 12

SEQ ID NO 9

LENGTH: 187

TYPE: PRT

ORGANISM: Homo sapiens

US-09-206-903A-9

Query Match

Best Local Similarity 96.0%; Score 832; DB 3; Length 187;

Mismatches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 60  
DB 22 MSYNLLGFLQSSNFQCKLLWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 81

QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120

DB 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 141

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 187

## RESULT 9

US-08-406-030A-30

Sequence 30, Application US/08406030A

Patent No. 6270989

GENERAL INFORMATION:

APPLICANT: Treco, Douglas A.

APPLICANT: Heartlein, Michael W.

APPLICANT: Hauge, Brian M.

APPLICANT: Selden, Richard F

TITLE OF INVENTION: Protein Production and Delivery

NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.

STREET: Two Militia Drive

CITY: Lexington

STATE: Massachusetts

COUNTRY: USA

ZIP: 02173

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/08/406,030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,586
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TKT95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-406-030A-30

Query Match          96.0%; Score 832; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 3.5e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQMLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLQMLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNATIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYYGRIHLHYLKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
DB 142 HLKRYYGRIHLHYLKKEYSHCAWTIVRVEILNFRINRLTGYLRN 187

RESULT 10
US-09-202-122-9
; Sequence 9, Application US/09202122
; Patent No. 6299869
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2 (filed)
; CURRENT APPLICATION NUMBER: US/09/202,122
; CURRENT FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
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; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-202-122-9

Query Match          96.0%; Score 832; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 3.5e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQMLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLQMLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNATIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYYGRIHLHYLKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
DB 142 HLKRYYGRIHLHYLKKEYSHCAWTIVRVEILNFRINRLTGYLRN 187

RESULT 11
US-09-206-935-7
; Sequence 7, Application US/09206935
; Patent No. 6299877
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Zhang, Dong-Xiao
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: 11669.SOUS05
; CURRENT APPLICATION NUMBER: US/09/206,935
; CURRENT FILING DATE: 1998-12-07
; EARLIER APPLICATION NUMBER: 60/084,045
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-206-935-7

Query Match          96.0%; Score 832; DB 3; Length 187;
Best Local Similarity 95.8%; Pred. No. 3.5e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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DB 22 MSYNLLGFLQSSNFQCKLLQMLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 81
QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNATIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYYGRIHLHYLKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
DB 142 HLKRYYGRIHLHYLKKEYSHCAWTIVRVEILNFRINRLTGYLRN 187

RESULT 12
US-09-206-936-7
; Sequence 7, Application US/09206936A
; Patent No. 6300475
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: No. 6300475el Inteferon
; FILE REFERENCE: P1224R1
; CURRENT APPLICATION NUMBER: US/09/206,936A
; CURRENT FILING DATE: 1998-12-07
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match          96.0%; Score 832; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 3.5e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 81

Qy 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 141

Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTYGLRN 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTYGLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          96.0%; Score 832; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 3.5e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 81

Qy 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 141

Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTYGLRN 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTYGLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
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; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match          96.0%; Score 832; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 3.5e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 81

Qy 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 141

Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTYGLRN 166
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFRINRLTYGLRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match          96.0%; Score 832; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 3.5e-83;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCCQKLLWQNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 81
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Db	82	EMLQIFAI	FRQDSS	TCGNAS	I	VAALL	S	NYHQ	I	NH	K	T	V	L	E	E	K	E	K	E	D	F	T	R	G	A	L	M	S	S	L	141					
QY	121	HLKRYG	RI	HL	YL	K	A	K	E	Y	S	H	C	A	W	T	I	V	R	V	E	I	L	R	N	F	I	N	R	L	T	G	Y	L	R	N	166
Db	142	HLKRYG	RI	HL	YL	K	A	K	E	Y	S	H	C	A	W	T	I	V	R	V	E	I	L	R	N	F	I	N	R	L	T	G	Y	L	R	N	187

Search completed: May 19, 2004, 14:26:12  
Job time : 13.8 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds  
(without alignments)  
1391.307 Million cell updates/sec

Title: US-09-832-659A-52

Perfect score: 867  
Sequence: 1 MSYNLLGLFQSRNFCQCKL.....RVEILRNFYRINLTGYLRN 166

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:  
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18: /cgn2\_6/ptodata/2/pubaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	845	97.5	166	10	US-09-832-658-24
2	833	96.1	166	9	US-09-788-552-2
3	832	96.0	166	10	US-09-971-843-7
4	832	96.0	166	12	US-09-732-436-16
5	832	96.0	166	14	US-10-246-932-1
6	832	96.0	166	14	US-10-186-962-1
7	832	96.0	166	14	US-10-400-377-5
8	832	96.0	166	14	US-10-400-708-5
9	832	96.0	166	14	US-10-084-706-2
10	832	96.0	166	14	US-10-298-148-5
11	832	96.0	166	14	US-10-325-720-2
12	832	96.0	166	14	US-10-351-189-2
13	832	96.0	166	14	US-10-449-456-1
14	832	96.0	166	15	US-10-609-296-2
15	832	96.0	166	16	US-10-448-667-1

16	832	96.0	183	9	US-09-832-659-4	Sequence 4, Appli
17	832	96.0	183	10	US-09-832-658-2	Sequence 2, Appli
18	832	96.0	186	12	US-10-449-831A-146	Sequence 146, App
19	832	96.0	187	9	US-09-788-552-1	Sequence 1, Appli
20	832	96.0	187	9	US-09-919-622A-9	Sequence 9, Appli
21	832	96.0	187	12	US-10-411-037-6	Sequence 6, Appli
22	832	96.0	187	12	US-09-881-050-17	Sequence 17, Appli
23	832	96.0	187	12	US-10-411-026-6	Sequence 2, Appli
24	832	96.0	187	13	US-10-004-201-2	Sequence 2, Appli
25	832	96.0	187	14	US-10-096-373-2	Sequence 2, Appli
26	832	96.0	187	14	US-10-418-038-9	Sequence 9, Appli
27	832	96.0	187	16	US-10-410-962-6	Sequence 6, Appli
28	832	96.0	187	16	US-10-411-049-6	Sequence 6, Appli
29	832	96.0	199	12	US-09-766-920B-11	Sequence 11, Appli
30	832	96.0	234	12	US-10-449-831A-192	Sequence 192, App
31	832	96.0	399	9	US-09-832-659-2	Sequence 2, Appli
32	830	95.7	166	12	US-10-035-420-1	Sequence 1, Appli
33	830	95.7	166	12	US-10-010-448-1	Sequence 1, Appli
34	829	95.6	187	9	US-09-927-850-7	Sequence 7, Appli
35	824	95.0	166	10	US-09-832-658-27	Sequence 27, Appli
36	823	94.9	418	9	US-09-832-659-42	Sequence 42, Appli
37	823	94.9	423	9	US-09-832-659-44	Sequence 44, Appli
38	822	94.8	166	14	US-10-246-932-2	Sequence 2, Appli
39	821	94.7	166	15	US-10-168-956A-1	Sequence 1, Appli
40	820	94.6	166	12	US-10-038-420-2	Sequence 2, Appli
41	820	94.6	166	12	US-10-010-448-2	Sequence 2, Appli
42	792	91.3	166	14	US-10-449-456-23	Sequence 23, Appli
43	792	91.3	166	16	US-10-448-667-23	Sequence 23, Appli
44	792	91.3	187	9	US-09-725-433-4	Sequence 4, Appli
45	792	91.3	187	14	US-10-284-740-12	Sequence 12, Appli

ALIGNMENTS

RESULT 1

US-09-832-658-24  
; Sequence 24, Application US/09832658  
; Publication NO. US20030021765A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; APPLICANT: Pepinsky, Blake  
; APPLICANT: Runkel, Laura  
; APPLICANT: Brickelmaier, Margot  
; APPLICANT: Whitty, Adrian  
; APPLICANT: Hochman, Paula  
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a  
; FILE REFERENCE: A065PCT  
; CURRENT APPLICATION NUMBER: US/09/832,658  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/104,572  
; PRIOR FILING DATE: 1998-10-16  
; PRIOR APPLICATION NUMBER: 60/120,161  
; PRIOR FILING DATE: 1999-02-16  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: human  
US-09-832-658-24

Query Match	97.5%	Score 845	DB 10	Length 166
Best Local Similarity	97.0%	Pred. No. 3e+82		
Mismatches	161	Conservative	2	Indels 0; Gaps 0
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Db	1	MSYNLLGLFQSRNFCQCKLLWQLGRLEYCLKDRNFDIPEIKLOQFOKEDALITY	60	
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Db 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 2
US-09-788-552-2
; Sequence 2, Application US/09788552
; Patent No. US20020076399A1
; GENERAL INFORMATION:
; APPLICANT: Braun, Serge
; TITLE OF INVENTION: Treatment of Immune Diseases
; FILE REFERENCE: 032751-053
; CURRENT APPLICATION NUMBER: US/09/788,552
; CURRENT FILING DATE: 2001-08-23
; PRIOR APPLICATION NUMBER: EP 00 44 0053.7
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: US 60/246,089
; PRIOR FILING DATE: 2000-11-07
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-788-552-2

Query Match 96.1%; Score 833; DB 9; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.8e-81;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQNLGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
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Db 61 EMLQNIFAIFRODSSSTGWNATIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 3
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Dorell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
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US-09-971-843-7

Query Match 96.0%; Score 832; DB 10; Length 166;
Best Local Similarity 95.8%; Pred. No. 7.4e-81;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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Db 61 EMLQNIFAIFRODSSSTGWNATIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 4
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhidas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match 96.0%; Score 832; DB 12; Length 166;
Best Local Similarity 95.8%; Pred. No. 7.4e-81;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQNLGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLQNLGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNATIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 5
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorianne
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PP18399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
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; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

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Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
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Db 61 EMLQNIFAIFQDSSSTGWNATIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166

RESULT 6
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; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxygen AGS
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR FILING DATE: 2002-06-28
; PRIOR FILING DATE: 2001-06-29
; PRIOR FILING DATE: 2001-06-29
; PRIOR FILING DATE: 2001-08-30
; PRIOR FILING DATE: 2002-02-19
; PRIOR FILING DATE: 2002-02-19
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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match
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Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
Db 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
QY 61 EMLQNIFAIFQDSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNATIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166
Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166

RESULT 7
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match
Best Local Similarity 95.8%; Score 832; DB 14; Length 166;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
Db 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
QY 61 EMLQNIFAIFQDSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNATIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166
Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166
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; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match
Best Local Similarity 96.0%; Score 832; DB 14; Length 166;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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QY 61 EMLQNIFAIFQDSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNATIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166
Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166

RESULT 8
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US20030166865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 2000-01-14
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match
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Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
QY 61 EMLQNIFAIFQDSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNATIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166
Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLNRN 166
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RESULT 9
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thaisg+rd
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORNSEN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0220us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFNB mature sequence
US-10-084-706-2

Query Match
Best Local Similarity 96.0%; Score 832; DB 14; Length 166;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 10
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Boldor Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4159-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
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; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match
Best Local Similarity 96.0%; Score 832; DB 14; Length 166;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 11
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match
Best Local Similarity 95.8%; Score 832; DB 14; Length 166;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 12
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
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; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates

; FILE REFERENCE: 0202us830

; CURRENT APPLICATION NUMBER: US/10/351,189

; CURRENT FILING DATE: 2003-01-24

; PRIOR APPLICATION NUMBER: US 09/648,569

; PRIOR FILING DATE: 2000-08-25

; NUMBER OF SEQ ID NOS: 45

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 2

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-351-189-2

Query Match 96.0%; Score 832; DB 14; Length 166;

Best Local Similarity 95.8%; Pred. No. 7.4e-81;

Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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DB 1 MSYNLLGLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRILHYLKAKEYSHCAWTVIRVEILRNFYINRLTGYLRN 166

DB 121 HLKRYGRILHYLKAKEYSHCAWTVIRVEILRNFYINRLTGYLRN 166

RESULT 13

US-10-449-456-1

; Sequence 1, Application US/10449456

; Publication No. US2003018686A1

; GENERAL INFORMATION:

; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan

; APPLICANT: Schneider-Fresenius, Christian

; APPLICANT: Otto, Bernd

; APPLICANT: Waschutza, Gero

; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERPERON WITH IMPROVED SOLUBILITY

; FILE REFERENCE: 127-65050

; CURRENT APPLICATION NUMBER: US/10/449,456

; CURRENT FILING DATE: 2003-05-30

; PRIOR APPLICATION NUMBER: US/09/403,532E

; PRIOR FILING DATE: 2000-02-22

; PRIOR APPLICATION NUMBER: PCT/EP/98/02238

; PRIOR FILING DATE: 1998-04-16

; PRIOR APPLICATION NUMBER: DE 19717864.2

; PRIOR FILING DATE: 1997-04-23

; NUMBER OF SEQ ID NOS: 26

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 1

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-449-456-1

Query Match 95.0%; Score 832; DB 14; Length 166;

Best Local Similarity 95.8%; Pred. No. 7.4e-81;

Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60

DB 1 MSYNLLGLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRILHYLKAKEYSHCAWTVIRVEILRNFYINRLTGYLRN 166

DB 121 HLKRYGRILHYLKAKEYSHCAWTVIRVEILRNFYINRLTGYLRN 166

RESULT 14

US-10-609-296-2

; Sequence 2, Application US/10609296

; Publication No. US20040013644A1

; GENERAL INFORMATION:

; APPLICANT: RASMUSSEN, Poul Baad

; APPLICANT: DRUSTRUP, Jorn

; APPLICANT: RASMUSSEN, Græthe

; APPLICANT: PEDERSEN, Anders Hjelholt

; APPLICANT: SCHAMBYE, Hans Thalesg+rd

; APPLICANT: ANDERSEN, Kim Vilbour

; APPLICANT: BORNSEN, Claus

; APPLICANT: Maxygen Aps

; APPLICANT: Maxygen Holdings Ltd.

; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES

; FILE REFERENCE: 0228us410

; CURRENT APPLICATION NUMBER: US/10/609,296

; CURRENT FILING DATE: 2003-06-27

; PRIOR APPLICATION NUMBER: US/10/084,706

; PRIOR FILING DATE: 2002-02-26

; PRIOR APPLICATION NUMBER: US 60/272,116

; PRIOR FILING DATE: 2001-02-27

; PRIOR APPLICATION NUMBER: US 60/343,436

; PRIOR FILING DATE: 2001-12-21

; PRIOR APPLICATION NUMBER: US 60/302,140

; PRIOR FILING DATE: 2001-06-29

; PRIOR APPLICATION NUMBER: US 60/316,170

; PRIOR FILING DATE: 2001-08-30

; PRIOR APPLICATION NUMBER: not yet assigned

; PRIOR FILING DATE: 2002-02-19

; PRIOR APPLICATION NUMBER: DK PA 2001 00333

; PRIOR FILING DATE: 2001-03-01

; PRIOR APPLICATION NUMBER: US 09/648,569

; PRIOR FILING DATE: 2000-08-25

; NUMBER OF SEQ ID NOS: 57

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: CHAIN

; LOCATION: (1)...(166)

; OTHER INFORMATION: hFENB mature sequence

US-10-609-296-2

Query Match 96.0%; Score 832; DB 15; Length 166;

Best Local Similarity 95.8%; Pred. No. 7.4e-81;

Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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DB 1 MSYNLLGLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGWNASIVAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

DB 61 EMLQNIFAIFRODSSSTGWNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRILHYLKAKEYSHCAWTVIRVEILRNFYINRLTGYLRN 166

DB 121 HLKRYGRILHYLKAKEYSHCAWTVIRVEILRNFYINRLTGYLRN 166

RESULT 15

US-10-448-667-1

; Sequence 1, Application US/10448667

; Publication No. US20040022763A1

; GENERAL INFORMATION:

; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan

; APPLICANT: Schneider-Fresenius, Christian

; APPLICANT: Otto, Bernd

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; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
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US-10-448-667-1

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Query Match      96.0%; Score 832; DB 16; Length 166;
Best Local Similarity 95.8%; Pred. No. 7.4e-81;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

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DB      1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFOKEDAAITY 60
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QY      61 EMLQNIFAIFRODSSSTGWNASIVAAALLSNVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
        |||||||
DB      61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
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QY      121 HLKRYGRILHLKAKESHCAWTIVRVEILENFYINRLTGYLRLN 166
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DB      121 HLKRYGRILHLKAKESHCAWTIVRVEILENFYINRLTGYLRLN 166
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Job time : 34.2 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds  
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Title: US-09-832-659A-51  
Perfect score: 888  
Sequence: 1 MSYNLLGFLQSSNFQCKL.....RVBILRFYRNLTGYLEN 166

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Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0  
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	839	96.7	166	14	US-10-411-037-6
5	839	96.7	166	14	US-10-411-037-6
6	839	96.7	166	14	US-10-411-037-6
7	839	96.7	166	14	US-10-411-037-6
8	839	96.7	166	14	US-10-411-037-6
9	839	96.7	166	14	US-10-411-037-6
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13	839	96.7	166	14	US-10-411-037-6
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17	839	96.7	186	12	US-10-449-831A-146	Sequence 146, App
18	839	96.7	187	9	US-09-788-552-1	Sequence 1, Appli
19	839	96.7	187	9	US-09-919-622A-9	Sequence 9, Appli
20	839	96.7	187	12	US-10-411-037-6	Sequence 6, Appli
21	839	96.7	187	12	US-09-881-050-17	Sequence 17, Appli
22	839	96.7	187	12	US-10-411-026-6	Sequence 2, Appli
23	839	96.7	187	13	US-10-004-201-2	Sequence 2, Appli
24	839	96.7	187	14	US-10-096-373-2	Sequence 9, Appli
25	839	96.7	187	14	US-10-418-038-9	Sequence 6, Appli
26	839	96.7	187	16	US-10-410-962-6	Sequence 6, Appli
27	839	96.7	187	16	US-10-411-049-6	Sequence 11, Appli
28	839	96.7	199	12	US-09-766-920B-11	Sequence 132, App
29	839	96.7	234	12	US-10-449-831A-192	Sequence 2, Appli
30	839	96.7	399	9	US-09-832-659-2	Sequence 1, Appli
31	837	96.4	166	12	US-10-035-420-1	Sequence 1, Appli
32	837	96.4	166	12	US-10-010-448-1	Sequence 7, Appli
33	836	96.3	187	9	US-09-927-850-7	Sequence 7, Appli
34	832	95.9	166	9	US-09-788-552-2	Sequence 42, Appli
35	830	95.6	418	9	US-09-832-659-42	Sequence 44, Appli
36	829	95.5	423	9	US-09-832-659-44	Sequence 2, Appli
37	829	95.5	166	14	US-10-246-932-2	Sequence 1, Appli
38	828	95.4	166	15	US-10-168-956A-1	Sequence 2, Appli
39	827	95.3	166	12	US-10-035-420-2	Sequence 2, Appli
40	827	95.3	166	12	US-10-010-448-2	Sequence 23, Appli
41	799	92.1	166	14	US-10-449-456-23	Sequence 23, Appli
42	799	92.1	166	16	US-10-448-667-23	Sequence 4, Appli
43	799	92.1	187	9	US-09-725-433-4	Sequence 12, Appli
44	799	92.1	187	14	US-10-284-740-12	Sequence 26, Appli
45	795	91.6	166	10	US-09-832-658-26	

ALIGNMENTS

RESULT 1  
US-09-832-658-24  
; Sequence 24, Application US/09832658  
; Publication No. US20030021765A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; APPLICANT: Pepinsky, Blake  
; APPLICANT: Runkel, Laura  
; APPLICANT: Brickelmaier, Margot  
; APPLICANT: Whitty, Adrian  
; APPLICANT: Hochman, Paula  
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a  
; TITLE OF INVENTION: and Uses  
; FILE REFERENCE: A065PCT  
; CURRENT APPLICATION NUMBER: US/09/832,658  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/104,572  
; PRIOR FILING DATE: 1998-10-16  
; PRIOR APPLICATION NUMBER: 60/120,161  
; PRIOR FILING DATE: 1999-02-16  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: human  
US-09-832-658-24

Query Match	98.2%	Score 852	DB 10	Length 166
Best Local Similarity	98.2%	Pred. No. 1.9e-81		
Matches 163	Conservative	0	Mismatches 3	Indels 0
Gaps	0			
Qy	1	MSYNLLGFLQSSNFQCKLLMOLNORLYCCKDRNWFDPBEIKOLOQFOKEDALITY	60	
Db	1	MSYNLLGFLQSSNFQCKLLMOLNORLYCCKDRNWFDPBEIKOLOQFOKEDALITY	60	
Qy	61	EMLQNPAPFAAASSSTGNETIVNLLNVHQINHLKTVLBEKLEKEDFTRGALMSSL	120	

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Db      61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match      96.7%; Score 839; DB 10; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
Db      1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60

QY      61 EMLQNIFAIFAAASSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db      61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhidas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT

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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match      96.7%; Score 839; DB 12; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
Db      1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60

QY      61 EMLQNIFAIFAAASSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db      61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorraine
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PPI8399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match      96.7%; Score 839; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60
Db      1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOQFQKEDAAITY 60

QY      61 EMLQNIFAIFAAASSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db      61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db      121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: Drustup, Joern
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30

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/ PRIOR APPLICATION NUMBER: 60/357,945
/ PRIOR FILING DATE: 2002-02-19
/ NUMBER OF SEQ ID NOS: 12
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 1
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          96.7%; Score 839; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
QY 61 EMLQNIFAIFAAASSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDPTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDPTRGALMSSL 120
QY 121 HLKRYGRILHYLKAKESHCAWTVRVEILNFRINRLTGYLRLN 166
DB 121 HLKRYGRILHYLKAKESHCAWTVRVEILNFRINRLTGYLRLN 166

RESULT 6
US-10-400-377-5
/ Sequence 5, Application US/10400377
/ Publication No. US20030162949A1
/ GENERAL INFORMATION:
/ APPLICANT: Bolder Biotechnology, Inc.
/ TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
/ FILE REFERENCE: 4152-1-PUS
/ CURRENT APPLICATION NUMBER: US/10/400,377
/ CURRENT FILING DATE: 2003-03-26
/ PRIOR APPLICATION NUMBER: US/09/462,941
/ PRIOR FILING DATE: 2000-01-14
/ PRIOR APPLICATION NUMBER: 60/052,516
/ PRIOR FILING DATE: 1997-07-14
/ NUMBER OF SEQ ID NOS: 41
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 5
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          96.7%; Score 839; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
QY 61 EMLQNIFAIFAAASSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDPTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDPTRGALMSSL 120
QY 121 HLKRYGRILHYLKAKESHCAWTVRVEILNFRINRLTGYLRLN 166
DB 121 HLKRYGRILHYLKAKESHCAWTVRVEILNFRINRLTGYLRLN 166

RESULT 7
US-10-400-377-5
/ Sequence 5, Application US/10400377
/ Publication No. US20030162949A1
/ GENERAL INFORMATION:
/ APPLICANT: Bolder Biotechnology, Inc.
/ TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
/ FILE REFERENCE: 4152-1-PUS
/ CURRENT APPLICATION NUMBER: US/10/400,377
/ CURRENT FILING DATE: 2003-03-26
/ PRIOR APPLICATION NUMBER: US/09/462,941
/ PRIOR FILING DATE: 2000-01-14
/ PRIOR APPLICATION NUMBER: 60/052,516
/ PRIOR FILING DATE: 1997-07-14
/ NUMBER OF SEQ ID NOS: 41
/ SOFTWARE: Patentin Ver. 2.0
/ SEQ ID NO 5
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          96.7%; Score 839; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
DB 1 MSYNLLGFLQSSNFQCCQKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAALTIY 60
QY 61 EMLQNIFAIFAAASSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDPTRGALMSSL 120
DB 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQNHLKTVLEEKLEKEDPTRGALMSSL 120
QY 121 HLKRYGRILHYLKAKESHCAWTVRVEILNFRINRLTGYLRLN 166
DB 121 HLKRYGRILHYLKAKESHCAWTVRVEILNFRINRLTGYLRLN 166

RESULT 8
US-10-084-706-2
/ Sequence 2, Application US/10084706
/ Publication No. US20030170206A1
/ GENERAL INFORMATION:
/ APPLICANT: RASMUSSEN, Poul Baad
/ APPLICANT: DRUSTRUP, Jørn
/ APPLICANT: RASMUSSEN, Grethe
/ APPLICANT: PEDERSEN, Anders Hjelholt
/ APPLICANT: SCHAMBYE, Hans Thalsg-rd
/ APPLICANT: ANDERSEN, Kim Vilbourn
/ APPLICANT: BORN, Claus
/ APPLICANT: Maxygen Aps
/ APPLICANT: Maxygen Holdings Ltd.
/ TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
/ FILE REFERENCE: 0228us410
/ CURRENT APPLICATION NUMBER: US/10/084,706
/ CURRENT FILING DATE: 2002-02-26
/ PRIOR APPLICATION NUMBER: US 60/272,116
/ PRIOR FILING DATE: 2001-02-27
/ PRIOR APPLICATION NUMBER: US 60/343,436
/ PRIOR FILING DATE: 2001-12-21
/ PRIOR APPLICATION NUMBER: US 60/302,140
/ PRIOR FILING DATE: 2001-06-29
/ PRIOR APPLICATION NUMBER: US 60/316,170
/ PRIOR FILING DATE: 2001-08-30
/ PRIOR APPLICATION NUMBER: not yet assigned
/ PRIOR FILING DATE: 2002-02-19
/ PRIOR APPLICATION NUMBER: DK PA 2001 00333
/ PRIOR FILING DATE: 2001-03-01
/ PRIOR APPLICATION NUMBER: US 09/648,569
/ PRIOR FILING DATE: 2000-08-25
/ NUMBER OF SEQ ID NOS: 57
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ FEATURE:
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; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: h1FNB mature sequence
US-10-084-706-2

Query Match          96.7%; Score 839; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLORSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLORSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Qy 61 EMLQNIFAIPAAASSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match          96.7%; Score 839; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLORSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLORSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Qy 61 EMLQNIFAIPAAASSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match          96.7%; Score 839; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLORSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLORSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Qy 61 EMLQNIFAIPAAASSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match          96.7%; Score 839; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLORSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLORSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Qy 61 EMLQNIFAIPAAASSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US20030186886A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
```

```
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-449-456-1

Query Match          96.7%; Score 839; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQNGRLLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Qy 61 EMLQNIFAIFAAASSTGWNETIVENLLANYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFFYNRLTGYLNRN 166
Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFFYNRLTGYLNRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsgard
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORNES, Claus
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2

; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-448-667-1

Query Match          96.7%; Score 839; DB 15; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQNGRLLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Qy 61 EMLQNIFAIFAAASSTGWNETIVENLLANYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFFYNRLTGYLNRN 166
Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFFYNRLTGYLNRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-448-667-1

Query Match          96.7%; Score 839; DB 16; Length 166;
Best Local Similarity 97.0%; Pred. No. 4.4e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLLEYCLKDRMNFDPPEIKQLQQFQKEDAAITY 60
Qy 61 EMLQNIFAIFAAASSTGWNETIVENLLANYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFFYNRLTGYLNRN 166
Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFFYNRLTGYLNRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US2002015547A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
; FILE REFERENCE: A064PCTSEQ
; CURRENT APPLICATION NUMBER: US/09/832,659
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/120,237
; PRIOR FILING DATE: 1999-02-16
; PRIOR APPLICATION NUMBER: 60/104,491
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 183
; TYPE: PRT
; ORGANISM: murine
US-09-832-659-4

Query Match      96.7%; Score 839; DB 9; Length 183;
Best Local Similarity 97.0%; Pred. No. 5e-80;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Db      18 MSYNLLGFLQSSNFQCOXLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDALTIY 77
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QY      61 EMLQNIFAIFRAASSSTGNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
        |||||||
Db      78 EMLQNIFAIFRODSSSTGNETIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 137
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QY      121 HLKRYVGRILHYLKAKESHCAWTIVRVEILRNFYRINRLTGYLRLN 166
        |||||||
Db      138 HLKRYVGRILHYLKAKESHCAWTIVRVEILRNPFYINRLTGYLRLN 183
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Search completed: May 19, 2004, 15:19:59  
Job time : 33.2 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 Seconds  
(without alignments)  
669.524 Million cell updates/sec

Title: US-09-832-659A-51

Perfect score: 868

Sequence: 1 MSYNLLGLFQSSNFQCKL.....RVEILNRYINRLTGYLRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.\*

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- 2: /cgn2\_6/ptodata/2/iaa/5B COMB.pep.\*
- 3: /cgn2\_6/ptodata/2/iaa/6A COMB.pep.\*
- 4: /cgn2\_6/ptodata/2/iaa/6B COMB.pep.\*
- 5: /cgn2\_6/ptodata/2/iaa/PCTUS COMB.pep.\*
- 6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	839	96.7	166	4	US-09-397-992A-7
2	839	96.7	166	4	US-09-569-722A-1
3	839	96.7	166	4	US-09-648-569A-2
4	839	96.7	166	4	US-09-971-843-7
5	839	96.7	166	4	US-09-403-532B-1
6	839	96.7	166	4	US-09-482-941-5
7	839	96.7	166	6	5514567-4
8	839	96.7	187	3	US-09-206-903A-9
9	839	96.7	187	3	US-08-406-030A-30
10	839	96.7	187	3	US-09-202-122-9
11	839	96.7	187	3	US-09-206-935-7
12	839	96.7	187	4	US-09-206-936-7
13	839	96.7	187	4	US-09-487-792-4
14	839	96.7	187	4	US-09-908-594-4
15	839	96.7	187	4	US-09-919-622A-9
16	839	96.7	187	6	5514567-1
17	839	96.7	415	4	US-09-215-212-14
18	839	96.4	166	2	US-08-477-310A-1
19	834	96.1	166	1	US-08-213-448-1
20	834	96.1	166	3	US-08-912-768-1
21	834	96.1	166	4	US-09-569-722A-4
22	834	96.1	166	4	US-09-569-722A-18
23	834	96.1	166	5	PCT-US95-03206-1
24	834	96.1	187	3	US-08-912-768-3
25	832	95.9	166	4	US-09-487-792-21
26	832	95.9	166	4	US-09-908-594-21
27	831	95.7	187	1	US-08-026-758-22

28	830	95.6	166	4	US-09-331-260-2	Sequence 2, Appl
29	829	95.5	166	4	US-09-569-722A-5	Sequence 5, Appl
30	822	94.7	187	6	5326859-1	Patent No. 5326859
31	820	94.5	166	4	US-09-569-722A-13	Sequence 13, Appl
32	820	94.5	166	4	US-09-569-722A-19	Sequence 19, Appl
33	815	93.9	166	4	US-09-569-722A-8	Sequence 8, Appl
34	815	93.9	166	4	US-09-569-722A-16	Sequence 16, Appl
35	813	93.7	166	4	US-09-569-722A-6	Sequence 6, Appl
36	812	93.5	166	4	US-09-569-722A-24	Sequence 24, Appl
37	810	93.3	166	4	US-09-569-722A-14	Sequence 14, Appl
38	809	93.2	166	4	US-09-569-722A-7	Sequence 7, Appl
39	809	93.2	166	4	US-09-569-722A-12	Sequence 12, Appl
40	809	93.2	166	4	US-09-569-722A-17	Sequence 17, Appl
41	808	93.1	166	4	US-09-569-722A-22	Sequence 22, Appl
42	807	93.0	166	4	US-09-569-722A-15	Sequence 15, Appl
43	804	92.6	166	4	US-09-569-722A-20	Sequence 20, Appl
44	803	92.5	166	4	US-09-569-722A-11	Sequence 11, Appl
45	802	92.4	166	4	US-09-569-722A-23	Sequence 23, Appl

ALIGNMENTS

RESULT 1

US-09-397-992A-7

; Sequence 7, Application US/09397992A  
; Patent No. 6329175

; GENERAL INFORMATION:

; APPLICANT: Conklin, Darrell

; APPLICANT: Grant, Francis J.

; APPLICANT: Rixon, Mark W.

; APPLICANT: Kindsvogel, Wayne

; TITLE OF INVENTION: Interferon-epsilon

; FILE REFERENCE: 98-46

; CURRENT APPLICATION NUMBER: US/09/397,992A

; CURRENT FILING DATE: 1999-09-16

; PRIOR APPLICATION NUMBER: 60/101,012

; PRIOR FILING DATE: 1998-09-18

; PRIOR APPLICATION NUMBER: 60/118,578

; PRIOR FILING DATE: 1999-02-05

; PRIOR APPLICATION NUMBER: 60/142,766

; PRIOR FILING DATE: 1999-07-08

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 7

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-397-992A-7

Query Match 96.7%; Score 839; DB 4; Length 166;  
Best Local Similarity 97.0%; Pred No. 5,1e-84;  
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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DB 1 MSYNLLGLFQSSNFQCKLLWQLNGRLCYCLKDRNFDIPEETKLOQFOKEDAAITY 60

QY 61 EMLQNIFAIRAAASSTGCTGNETIVENLVYHINHLKTVLEKLEKEDFTRGALMSSL 120

DB 61 EMLQNIFAIRQDSSSTGCTGNETIVENLVYHINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYIGRILHYLKAKEYSHCAWTVRVEILNRYINRLTGYLRN 166

DB 121 HLKRYIGRILHYLKAKEYSHCAWTVRVEILNRYINRLTGYLRN 166

RESULT 2

US-09-569-722A-1

; Sequence 1, Application US/09569722A

; Patent No. 6514729

; GENERAL INFORMATION:

; APPLICANT: Bentzien, Joerg M

```
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
; FILE REFERENCE: A-68059-1/RPT/RMS/RWK
; CURRENT APPLICATION NUMBER: US/09/569,722A
; PRIOR FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: US 60/133,785
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match          96.7%; Score 839; DB 4; Length 166;
Best Local Similarity 97.0%; Pred. No. 5.1e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTYI 60
DB 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTYI 60

QY 61 EMLQNIFAIPAAASSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHLKAKESHCAWTVRVVEILNFRINRLTGYLRN 166
DB 121 HLKRYVGRILHLKAKESHCAWTVRVVEILNFRINRLTGYLRN 166

RESULT 3
US-09-648-569A-2
; Sequence 2, Application US/09648569A
; Patent No. 6531122
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202u810
; CURRENT APPLICATION NUMBER: US/09/648,569A
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-648-569A-2

Query Match          96.7%; Score 839; DB 4; Length 166;
Best Local Similarity 97.0%; Pred. No. 5.1e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTYI 60

QY 61 EMLQNIFAIPAAASSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHLKAKESHCAWTVRVVEILNFRINRLTGYLRN 166
DB 121 HLKRYVGRILHLKAKESHCAWTVRVVEILNFRINRLTGYLRN 166

RESULT 4
US-09-971-843-7
; Sequence 7, Application US/09971843
; Patent No. 6544505
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
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; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvoegel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match          96.7%; Score 839; DB 4; Length 166;
Best Local Similarity 97.0%; Pred. No. 5.1e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTYI 60

QY 61 EMLQNIFAIPAAASSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHLKAKESHCAWTVRVVEILNFRINRLTGYLRN 166
DB 121 HLKRYVGRILHLKAKESHCAWTVRVVEILNFRINRLTGYLRN 166

RESULT 5
US-09-403-532E-1
; Sequence 1, Application US/09403532E
; Patent No. 6572853
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/09/403,532E
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-403-532E-1

Query Match          96.7%; Score 839; DB 4; Length 166;
Best Local Similarity 97.0%; Pred. No. 5.1e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTYI 60
DB 1 MSYNLLGFLQSSNFQCCQLLWQLNGRLEYCLKDRMNFDPPEIKQLQOQFKEDAALTYI 60
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QY 61 EMLQNIFAFAAASSTGNETIVENLLANYHQLKTVLEKLEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAFQDSSSTGNETIVENLLANYHQLKTVLEKLEKEDFTRGALMSSL 120  
QY 121 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 166  
Db 121 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 166

## RESULT 6

US-09-462-941-5  
; Sequence 5, Application US/09462941  
; Patent No. 6608183  
; GENERAL INFORMATION:  
; APPLICANT: Cox III, George N.  
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins  
; FILE REFERENCE: 4152-1-PUS  
; CURRENT APPLICATION NUMBER: US/09/462,941  
; PRIOR FILING DATE: 2000-01-14  
; PRIOR APPLICATION NUMBER: 60/052,516  
; PRIOR FILING DATE: 1997-07-14  
; NUMBER OF SEQ ID NOS: 41  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-462-941-5

Query Match 96.7%; Score 839; DB 4; Length 166;  
Best Local Similarity 97.0%; Pred. No. 5.1e-84;  
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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Db 1 MSYNLLGLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60  
QY 61 EMLQNIFAFAAASSTGNETIVENLLANYHQLKTVLEKLEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAFQDSSSTGNETIVENLLANYHQLKTVLEKLEKEDFTRGALMSSL 120  
QY 121 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 166  
Db 121 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 166

## RESULT 7

5514567-4  
; Patent No. 5514567  
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI, TADATSUGU  
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID  
; NUMBER OF SEQUENCES: 5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/400,179  
; FILING DATE: 06-MAR-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 389,922  
; FILING DATE: 18-JUN-1982  
; APPLICATION NUMBER: 201,359  
; FILING DATE: 27-OCT-1980  
; SEQ ID NO: 4  
; LENGTH: 166  
5514567-4

Query Match 96.7%; Score 839; DB 6; Length 166;  
Best Local Similarity 97.0%; Pred. No. 5.1e-84;  
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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QY 121 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 166  
Db 121 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 166

## RESULT 8

US-09-206-903A-9  
; Sequence 9, Application US/09206903A  
; Patent No. 6200780  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Jian  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Dong-Xiao  
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS  
; FILE REFERENCE: P1224-2R1  
; CURRENT APPLICATION NUMBER: US/09/206,903A  
; CURRENT FILING DATE: 1998-12-07  
; PRIOR APPLICATION NUMBER: US 60/106,463  
; PRIOR FILING DATE: 1998-10-30  
; NUMBER OF SEQ ID NOS: 12  
; SEQ ID NO 9  
; LENGTH: 187  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-206-903A-9

Query Match 96.7%; Score 839; DB 3; Length 187;  
Best Local Similarity 97.0%; Pred. No. 6e-84;  
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 60  
Db 22 MSYNLLGLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFKEDAAITY 81  
QY 61 EMLQNIFAFAAASSTGNETIVENLLANYHQLKTVLEKLEKEDFTRGALMSSL 120  
Db 82 EMLQNIFAFQDSSSTGNETIVENLLANYHQLKTVLEKLEKEDFTRGALMSSL 141  
QY 121 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 166  
Db 142 HKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNRYNRLTGYLRN 187

## RESULT 9

US-08-406-030A-30  
; Sequence 30, Application US/08406030A  
; Patent No. 6270989  
; GENERAL INFORMATION:  
; APPLICANT: Treco, Douglas A.  
; APPLICANT: Hartlein, Michael W.  
; APPLICANT: Hauge, Brian M.  
; APPLICANT: Selden, Richard F.  
; TITLE OF INVENTION: Protein Production and Delivery  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.c.  
; STREET: Two Militia Drive  
; CITY: Lexington  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/08/406.030A
; FILING DATE: 17-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/243,391
; FILING DATE: 13-MAY-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,586
; FILING DATE: 03-DEC-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/911,533
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/787,840
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/789,188
; FILING DATE: 05-NOV-1991
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/11704
; FILING DATE: 02-DEC-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/09627
; FILING DATE: 05-NOV-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: TKT95-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 30:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 187 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-406-030A-30

Query Match          96.7%; Score 839; DB 3; Length 187;
Best Local Similarity 97.0%; Pred. No. 6e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81
QY 61 EMLQNIFAIFAASSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGKLMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVRVEILRNFFYNRLTGILRN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTVRVEILRNFFYNRLTGILRN 187

RESULT 10
US-09-202-122-9
; Sequence 9, Application US/09202122
; Patent No. 6329829
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; CURRENT APPLICATION NUMBER: US/09/202,122
; CURRENT FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9

Query Match          96.7%; Score 839; DB 3; Length 187;
Best Local Similarity 97.0%; Pred. No. 6e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81
QY 61 EMLQNIFAIFAASSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGKLMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVRVEILRNFFYNRLTGILRN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTVRVEILRNFFYNRLTGILRN 187

RESULT 11
US-09-206-935-7
; Sequence 7, Application US/09206935
; Patent No. 6299877
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
; FILE REFERENCE: 11869.50US05
; CURRENT APPLICATION NUMBER: US/09/206,935
; CURRENT FILING DATE: 1998-12-07
; EARLIER APPLICATION NUMBER: 60/084,045
; EARLIER FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-935-7

Query Match          96.7%; Score 839; DB 3; Length 187;
Best Local Similarity 97.0%; Pred. No. 6e-84;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81
QY 61 EMLQNIFAIFAASSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGKLMSSL 141
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVRVEILRNFFYNRLTGILRN 166
DB 142 HLKRYVGRILHYLKAKEYSHCAWTVRVEILRNFFYNRLTGILRN 187

RESULT 12
US-09-206-936-7
; Sequence 7, Application US/09206936A
; Patent No. 6300475
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: No. 6300475el Inteferon
; FILE REFERENCE: P1224R1
; CURRENT APPLICATION NUMBER: US/09/206,936A
; CURRENT FILING DATE: 1998-12-07
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match
Best Local Similarity 96.7%; Score 839; DB 4; Length 187;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81

Qy 61 EMLQNIPIFAAASSSTGWNTEIVENLLANYHQAHLKTVLEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIPIFAQSSSTGWNTEIVENLLANYHQAHLKTVLEKLEKEDFTRGALMSSL 141

Qy 121 HLKYYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 142 HLKYYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P1
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match
Best Local Similarity 96.7%; Score 839; DB 4; Length 187;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81

Qy 61 EMLQNIPIFAAASSSTGWNTEIVENLLANYHQAHLKTVLEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIPIFAQSSSTGWNTEIVENLLANYHQAHLKTVLEKLEKEDFTRGALMSSL 141

Qy 121 HLKYYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 142 HLKYYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match
Best Local Similarity 96.7%; Score 839; DB 4; Length 187;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81

Qy 61 EMLQNIPIFAAASSSTGWNTEIVENLLANYHQAHLKTVLEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIPIFAQSSSTGWNTEIVENLLANYHQAHLKTVLEKLEKEDFTRGALMSSL 141

Qy 121 HLKYYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 142 HLKYYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-BPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/256672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match
Best Local Similarity 96.7%; Score 839; DB 4; Length 187;
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81
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Db	82	EWLQNI	FAIP	QD	SSSTG	NETI	VENLL	ANVH	QI	NH	LK	T	V	LE	E	K	E	D	F	T	R	G	A	L	M	S	S	L	141								
Qy	121	HLKRY	YGRIL	H	Y	L	K	A	K	E	Y	S	H	C	A	W	I	T	I	R	V	E	I	L	R	N	F	R	N	L	T	G	Y	L	R	N	166
Db	142	HLKRY	YGRIL	H	Y	L	K	A	K	E	Y	S	H	C	A	W	I	T	I	R	V	E	I	L	R	N	F	R	N	L	T	G	Y	L	R	N	187

Search completed: May 19, 2004, 14:26:11  
Job time : 12.8 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds  
(without alignments)  
1391.307 Million cell updates/sec

Title: US-09-832-659A-50

Perfect score: 869

Sequence: 1 MSYNLLGFLQSSNFQCKL.....RVEILRFYRINRLTGYLRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/2/pubaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/2/pubaa/FCI\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubaa/US06\_NEW\_PUB.pep.\*
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- 17: /cgn2\_6/ptodata/2/pubaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/2/pubaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	855	98.4	166	10	US-09-832-658-24
2	842	96.9	166	10	US-09-971-843-7
3	842	96.9	166	12	US-09-732-436-16
4	842	96.9	166	14	US-10-246-932-1
5	842	96.9	166	14	US-10-186-962-1
6	842	96.9	166	14	US-10-400-377-5
7	842	96.9	166	14	US-10-400-708-5
8	842	96.9	166	14	US-10-084-706-2
9	842	96.9	166	14	US-10-298-148-5
10	842	96.9	166	14	US-10-325-720-2
11	842	96.9	166	14	US-10-351-189-2
12	842	96.9	166	14	US-10-449-456-1
13	842	96.9	166	15	US-10-609-296-2
14	842	96.9	166	16	US-10-448-667-1
15	842	96.9	183	9	US-09-832-659-4

16	842	96.9	183	10	US-09-832-658-2	Sequence 2, Appli
17	842	96.9	186	12	US-10-449-831A-146	Sequence 146, App
18	842	96.9	187	9	US-09-788-552-1	Sequence 1, Appli
19	842	96.9	187	9	US-09-919-622A-9	Sequence 9, Appli
20	842	96.9	187	12	US-10-411-037-6	Sequence 6, Appli
21	842	96.9	187	12	US-09-881-050-17	Sequence 17, Appli
22	842	96.9	187	12	US-10-411-026-6	Sequence 6, Appli
23	842	96.9	187	13	US-10-004-201-2	Sequence 2, Appli
24	842	96.9	187	14	US-10-096-373-2	Sequence 9, Appli
25	842	96.9	187	14	US-10-418-038-9	Sequence 6, Appli
26	842	96.9	187	16	US-10-410-962-6	Sequence 6, Appli
27	842	96.9	187	16	US-10-411-049-6	Sequence 11, Appli
28	842	96.9	199	12	US-09-766-320B-11	Sequence 12, App
29	842	96.9	234	12	US-10-449-831A-192	Sequence 2, Appli
30	842	96.9	399	9	US-09-832-659-2	Sequence 1, Appli
31	840	96.7	166	12	US-10-035-420-1	Sequence 7, Appli
32	840	96.7	166	12	US-10-010-448-1	Sequence 2, Appli
33	839	96.5	187	9	US-09-927-850-7	Sequence 42, Appli
34	835	96.1	166	9	US-09-788-552-2	Sequence 44, Appli
35	833	95.9	418	9	US-09-832-659-44	Sequence 2, Appli
36	832	95.7	166	14	US-10-246-932-2	Sequence 1, Appli
37	832	95.7	166	15	US-10-168-956A-1	Sequence 2, Appli
38	831	95.6	166	12	US-10-035-420-2	Sequence 2, Appli
39	830	95.5	166	12	US-10-010-448-2	Sequence 25, Appli
40	830	95.5	166	10	US-03-832-658-25	Sequence 23, Appli
41	809	93.1	166	14	US-10-449-456-23	Sequence 4, Appli
42	802	92.3	166	16	US-10-448-667-23	Sequence 12, Appli
43	802	92.3	187	9	US-09-725-433-4	
44	802	92.3	187	14	US-10-284-740-12	
45	802	92.3				

## ALIGNMENTS

### RESULT 1

US-09-832-658-24  
; Sequence 24, Application US/09832658  
; Publication No. US20030021765A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; APPLICANT: Pepinsky, Blake  
; APPLICANT: Runkel, Laura  
; APPLICANT: Brickelmaier, Margot  
; APPLICANT: Whitty, Adrian  
; APPLICANT: Hochman, Paula  
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a  
; FILE REFERENCE: A065PCT  
; CURRENT APPLICATION NUMBER: US/09/832,658  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/104,572  
; PRIOR FILING DATE: 1998-10-16  
; PRIOR APPLICATION NUMBER: 60/120,161  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: human  
US-09-832-658-24

Query Match 98.4%; Score 855; DB 10; Length 166;

Best Local Similarity 98.2%; Pred. No. 3.4e-80;  
Matches 163; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY	1	MSYNLLGFLQSSNFQCKLWOLNGRLEYCLKDRNFDIPEIKLOQFOKEDAAITY 60
DB	1	MSYNLLGFLQSSNFQCKLWOLNGRLEYCLKDRNFDIPEIKLOQFOKEDAAITY 60
QY	61	EMLANIASIFRQSSSTGWNITVENLLANVYHQLNHLKTVLEEKLEKEDFTFGALMSL 120

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Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLVYLKAKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLVYLKAKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-03-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRN
; ORGANISM: Homo sapiens
; US-09-971-843-7

Query Match 96.9%; Score 842; DB 10; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFQKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFQKEDAAALTY 60

QY 61 EMLANIASIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLVYLKAKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLVYLKAKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhidas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRN
; ORGANISM: Homo sapiens
; US-09-732-436-16

Query Match 96.9%; Score 842; DB 10; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

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Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFQKEDAAALTY 60

QY 61 EMLANIASIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLVYLKAKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLVYLKAKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorianne
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PP18399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRN
; ORGANISM: Homo sapiens
; US-10-246-932-1

Query Match 96.9%; Score 842; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFQKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFQKEDAAALTY 60

QY 61 EMLANIASIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLVYLKAKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLVYLKAKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: Drustup, Joern
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 023208410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
; TYPE: PRN
; ORGANISM: Homo sapiens
; US-10-186-962-1

Query Match 96.9%; Score 842; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFQKEDAAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKQLQOFQKEDAAALTY 60

QY 61 EMLANIASIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120

QY 121 HLKRYGRIHLVYLKAKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLVYLKAKKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          96.9%; Score 842; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRWNFDIPEIKQLQOFKEDAAITY 60
   |||||
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRWNFDIPEIKQLQOFKEDAAITY 60
   |||||

QY 61 EMLANIASIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEKLEKEDFTRGALMSSL 120
   |||||
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEKLEKEDFTRGALMSSL 120
   |||||

QY 121 HKRYGRIILHYLKAKYSHCAWTIVRVEILRNFFINRLTGYLRN 166
   |||||
DB 121 HKRYGRIILHYLKAKYSHCAWTIVRVEILRNFFINRLTGYLRN 166
   |||||

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          96.9%; Score 842; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRWNFDIPEIKQLQOFKEDAAITY 60
   |||||
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRWNFDIPEIKQLQOFKEDAAITY 60
   |||||

QY 61 EMLANIASIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEKLEKEDFTRGALMSSL 120
   |||||
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEKLEKEDFTRGALMSSL 120
   |||||

QY 121 HKRYGRIILHYLKAKYSHCAWTIVRVEILRNFFINRLTGYLRN 166
   |||||
DB 121 HKRYGRIILHYLKAKYSHCAWTIVRVEILRNFFINRLTGYLRN 166
   |||||

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US20030165865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          96.9%; Score 842; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRWNFDIPEIKQLQOFKEDAAITY 60
   |||||
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRWNFDIPEIKQLQOFKEDAAITY 60
   |||||

QY 61 EMLANIASIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEKLEKEDFTRGALMSSL 120
   |||||
DB 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANYVHQINHLKTVLEKLEKEDFTRGALMSSL 120
   |||||

QY 121 HKRYGRIILHYLKAKYSHCAWTIVRVEILRNFFINRLTGYLRN 166
   |||||
DB 121 HKRYGRIILHYLKAKYSHCAWTIVRVEILRNFFINRLTGYLRN 166
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RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsg+rd
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/548,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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; NAME/KEY: CHAIN
; LOCATION: (1)....(166)
; OTHER INFORMATION: hifNB mature sequence
US-10-084-706-2

Query Match
Best Local Similarity 96.9%; Score 842; DB 14; Length 166;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
QY 61 EMLANIASIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYINRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYINRLTGYLRN 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent in Ver. 2.0
; SEQ ID NO 5
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match
Best Local Similarity 96.9%; Score 842; DB 14; Length 166;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
QY 61 EMLANIASIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYINRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYINRLTGYLRN 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match
Best Local Similarity 96.9%; Score 842; DB 14; Length 166;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
QY 61 EMLANIASIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYINRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYINRLTGYLRN 166

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match
Best Local Similarity 96.9%; Score 842; DB 14; Length 166;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKQLQOFQKEDAALTYI 60
QY 61 EMLANIASIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYINRLTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYINRLTGYLRN 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US20030186886A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
```

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; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          96.9%; Score 842; DB 14; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQQFKEDAALTYIY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQQFKEDAALTYIY 60
QY 61 EMLANIASIPRODSSSTGWNTEIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLVYLKAKESHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 121 HLKRYGRIHLVYLKAKESHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Græthe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsg+rd
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORNES, Claus
; APPLICANT: Maxysen Aps
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228ue410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hufNB mature sequence
US-10-609-296-2

Query Match          96.9%; Score 842; DB 15; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQQFKEDAALTYIY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQQFKEDAALTYIY 60
QY 61 EMLANIASIPRODSSSTGWNTEIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLVYLKAKESHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 121 HLKRYGRIHLVYLKAKESHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          96.9%; Score 842; DB 16; Length 166;
Best Local Similarity 97.0%; Pred. No. 7.6e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQQFKEDAALTYIY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQQFKEDAALTYIY 60
QY 61 EMLANIASIPRODSSSTGWNTEIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYHQNHLKTVLEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLVYLKAKESHCAWTIVRVEILRNFRINRLTGYLRN 166
DB 121 HLKRYGRIHLVYLKAKESHCAWTIVRVEILRNFRINRLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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Patent No. US20020155547A1  
GENERAL INFORMATION:  
APPLICANT: BIOGEN, INC.  
TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses  
FILE REFERENCE: A064PCTSEQ  
CURRENT APPLICATION NUMBER: US/09/832,659  
CURRENT FILING DATE: 2001-04-11  
PRIOR APPLICATION NUMBER: 60/120,237  
PRIOR FILING DATE: 1998-02-16  
PRIOR APPLICATION NUMBER: 60/104,491  
PRIOR FILING DATE: 1998-10-16  
NUMBER OF SEQ ID NOS: 44  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4  
LENGTH: 183  
TYPE: PRT  
ORGANISM: murine  
US-09-832-659-4

Query Match 96.9%; Score 842; DB 9; Length 183;  
Best Local Similarity 97.0%; Pred. No. 8.6e-79;  
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFCCCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFOKEDAAITY 60  
DB 18 MSYNLLGFLQSSNFCCCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQOQFOKEDAAITY 77  
QY 61 EMLANIAGIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120  
DB 78 EMLQNFIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 137  
QY 121 HLKRYGRIILHYLKAKESHCAWTIVRVEILNRYINRLTGYLRN 166  
DB 138 HLKRYGRIILHYLKAKESHCAWTIVRVEILNRYINRLTGYLRN 183

Search completed: May 19, 2004, 15:19:59  
Job time : 34.2 secs

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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 Seconds  
(without alignments)  
669.524 Million cell updates/sec

Title: US-09-832-659A-49  
Perfect score: 865  
Sequence: 1 MSYNLLGFLQSSNFQCQKL.....RVEILRNFYRINLTGYLRN 166

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA.\*  
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2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	812	93.9	166	4	US-09-397-992A-7
2	812	93.9	166	4	US-09-569-722A-1
3	812	93.9	166	4	US-09-648-569A-2
4	812	93.9	166	4	US-09-971-843-7
5	812	93.9	166	4	US-09-403-532E-1
6	812	93.9	166	4	US-09-462-941-5
7	812	93.9	166	6	5514567-4
8	812	93.9	187	3	US-09-206-903A-9
9	812	93.9	187	3	US-08-406-030A-30
10	812	93.9	187	3	US-09-202-122-9
11	812	93.9	187	3	US-09-206-935-7
12	812	93.9	187	4	US-09-206-936-7
13	812	93.9	187	4	US-09-487-792-4
14	812	93.9	187	4	US-09-908-594-4
15	812	93.9	187	4	US-09-919-622A-9
16	812	93.9	187	6	5514567-1
17	812	93.9	415	4	US-09-215-212-14
18	810	93.6	166	2	US-08-477-310A-1
19	807	93.3	166	1	US-08-213-448-1
20	807	93.3	166	3	US-08-912-768-1
21	807	93.3	166	4	US-09-569-722A-4
22	807	93.3	166	4	US-09-569-722A-18
23	807	93.3	166	5	PCT-US95-03206-1
24	807	93.3	166	4	US-08-912-768-3
25	805	93.1	166	4	US-09-487-792-21
26	805	93.1	166	4	US-09-908-594-21
27	804	92.9	187	1	US-08-026-758-22

28	803	92.8	166	4	US-09-331-260-2	Sequence 2, Appli
29	802	92.7	166	4	US-09-569-722A-5	Sequence 5, Appli
30	795	91.9	187	6	5326859-1	Patent No. 5326859
31	793	91.7	166	4	US-09-569-722A-13	Sequence 13, Appl
32	793	91.7	166	4	US-09-569-722A-19	Sequence 19, Appl
33	788	91.1	166	4	US-09-569-722A-8	Sequence 8, Appli
34	788	91.1	166	4	US-09-569-722A-16	Sequence 16, Appl
35	786	90.9	166	4	US-09-569-722A-6	Sequence 6, Appli
36	785	90.8	166	4	US-09-569-722A-24	Sequence 24, Appl
37	783	90.5	166	4	US-09-569-722A-14	Sequence 14, Appl
38	782	90.4	166	4	US-09-569-722A-7	Sequence 7, Appli
39	782	90.4	166	4	US-09-569-722A-12	Sequence 12, Appl
40	782	90.4	166	4	US-09-569-722A-17	Sequence 17, Appl
41	781	90.3	166	4	US-09-569-722A-22	Sequence 22, Appl
42	780	90.2	166	4	US-09-569-722A-15	Sequence 15, Appl
43	780	90.2	166	4	US-09-403-532E-23	Sequence 23, Appl
44	777	89.8	166	4	US-09-569-722A-20	Sequence 20, Appl
45	776	89.7	166	4	US-09-569-722A-11	Sequence 11, Appl

ALIGNMENTS

RESULT 1

US-09-397-992A-7  
; Sequence 7, Application US/09397992A  
; Patent No. 6329175  
; GENERAL INFORMATION:  
; APPLICANT: Conklin, Darrell  
; APPLICANT: Grant, Francis J.  
; APPLICANT: Rixon, Mark W.  
; APPLICANT: Kindvogel, Wayne  
; TITLE OF INVENTION: Interferon-epsilon  
; FILE REFERENCE: 98-46  
; CURRENT APPLICATION NUMBER: US/09/397,992A  
; PRIOR FILING DATE: 1999-09-16  
; PRIOR APPLICATION NUMBER: 60/101,012  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/118,578  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/142,766  
; PRIOR FILING DATE: 1999-07-08  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-397-992A-7

Query Match	93.9%	Score	812	DB	4	Length	166
Best Local Similarity	94.0%	Pred. No.	3.4e-84				
Mismatches	156	Conservative	0	Mismatches	10	Indels	0
Gaps	0						
QY	1	MSYNLLGFLQSSNFQCQKLWQLNGRLEYCLKDRMNFDP	PEEIAAAAFADAALTY	60			
Db	1	MSYNLLGFLQSSNFQCQKLWQLNGRLEYCLKDRMNFDP	PEEIKOLOQOKEDALTY	60			
QY	61	EMLQNIFFAFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL	120				
Db	61	EMLQNIFFAFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL	120				
QY	121	HLKRYIGRILHYLKAKEYSHCAWTVRVEILANFYRINLTGYLRN	166				
Db	121	HLKRYIGRILHYLKAKEYSHCAWTVRVEILANFYRINLTGYLRN	166				

RESULT 2

US-09-569-722A-1  
; Sequence 1, Application US/09569722A  
; Patent No. 6514729  
; GENERAL INFORMATION:  
; APPLICANT: Bentsien, Joerg M

; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY  
; FILE REFERENCE: A-68059-11RFT/RMS/RMK  
; CURRENT APPLICATION NUMBER: US/09/569,722A  
; CURRENT FILING DATE: 2000-05-11  
; PRIOR APPLICATION NUMBER: US 60/133,785  
; PRIOR FILING DATE: 1999-05-12  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-569-722A-1

Query Match 93.9%; Score 812; DB 4; Length 166;  
Best Local Similarity 94.0%; Pred. No. 3.4e-84;  
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCCQKLLQWNGRLEYCLKDRMNFDPPEIAAAAAFAAADAALTY 60  
Db 1 MSYNLLGFLQSSNFQCCQKLLQWNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTY 60  
QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRLN 166  
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRLN 166

RESULT 3  
US-09-648-569A-2  
; Sequence 2, Application US/09648569A  
; Patent No. 6531122  
; GENERAL INFORMATION:  
; APPLICANT: Pedersen, A.H., et al.  
; APPLICANT: Maxygen Aps  
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates  
; FILE REFERENCE: 0202u810  
; CURRENT APPLICATION NUMBER: US/09/648,569A  
; CURRENT FILING DATE: 2000-08-25  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-648-569A-2

Query Match 93.9%; Score 812; DB 4; Length 166;  
Best Local Similarity 94.0%; Pred. No. 3.4e-84;  
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCCQKLLQWNGRLEYCLKDRMNFDPPEIAAAAAFAAADAALTY 60  
Db 1 MSYNLLGFLQSSNFQCCQKLLQWNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTY 60  
QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRLN 166  
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRLN 166

RESULT 4  
US-09-971-843-7  
; Sequence 7, Application US/09971843  
; Patent No. 6544505  
; GENERAL INFORMATION:  
; APPLICANT: Conklin, Darrell C.

; APPLICANT: Grant, Francis J.  
; APPLICANT: Rixon, Mark W.  
; APPLICANT: Kindsvoegel, Wayne  
; TITLE OF INVENTION: Interferon-epsilon  
; FILE REFERENCE: 98-46D1  
; CURRENT APPLICATION NUMBER: US/09/971,843  
; CURRENT FILING DATE: 2001-10-04  
; PRIOR APPLICATION NUMBER: 60/101,012  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/118,578  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/142,766  
; PRIOR FILING DATE: 1999-07-08  
; PRIOR APPLICATION NUMBER: 09/397,992  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-971-843-7

Query Match 93.9%; Score 812; DB 4; Length 166;  
Best Local Similarity 94.0%; Pred. No. 3.4e-84;  
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCCQKLLQWNGRLEYCLKDRMNFDPPEIAAAAAFAAADAALTY 60  
Db 1 MSYNLLGFLQSSNFQCCQKLLQWNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTY 60  
QY 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAIFQDSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRLN 166  
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFYRINRLTGYLRLN 166

RESULT 5  
US-09-403-532E-1  
; Sequence 1, Application US/09403532E  
; Patent No. 6572853  
; GENERAL INFORMATION:  
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan  
; APPLICANT: Schneider-Presenius, Christian  
; APPLICANT: Otto, Bernd  
; APPLICANT: Waschutza, Gero  
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERPERON WITH IMPROVED SOLUBILITY  
; FILE REFERENCE: 127-65050  
; CURRENT APPLICATION NUMBER: US/09/403,532E  
; CURRENT FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238  
; PRIOR FILING DATE: 1998-04-16  
; PRIOR APPLICATION NUMBER: DE 19717864.2  
; PRIOR FILING DATE: 1997-04-23  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-403-532E-1

Query Match 93.9%; Score 812; DB 4; Length 166;  
Best Local Similarity 94.0%; Pred. No. 3.4e-84;  
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCCQKLLQWNGRLEYCLKDRMNFDPPEIAAAAAFAAADAALTY 60  
Db 1 MSYNLLGFLQSSNFQCCQKLLQWNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTY 60

QY 61 EMLQNFALFRQDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120  
Db |||||  
61 EMLQNFALFRQDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166  
Db |||||  
121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

## RESULT 6

US-09-462-941-5  
; Sequence 5, Application US/09462941  
; Patent No. 608183  
; GENERAL INFORMATION:  
; APPLICANT: Cox III, George N  
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins  
; FILE REFERENCE: 4152-1-PUS  
; CURRENT APPLICATION NUMBER: US/09/462,941  
; PRIOR FILING DATE: 2000-01-14  
; PRIOR APPLICATION NUMBER: 60/052,516  
; PRIOR FILING DATE: 1997-07-14  
; NUMBER OF SEQ ID NOS: 41  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-462-941-5

Query Match 93.9%; Score 812; DB 4; Length 166;  
Best Local Similarity 94.0%; Pred. No. 3.4e-84;  
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIAAAAAFAADAALTYI 60  
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQQQKEDALTYI 60  
QY 61 EMLQNFALFRQDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120  
Db 61 EMLQNFALFRQDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166  
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

## RESULT 7

5514567-4  
; Patent No. 5514567  
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,  
; TADATSUGU  
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID  
; NUMBER OF SEQUENCES: 5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/400,179  
; FILING DATE: 06-MAR-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 389,922  
; FILING DATE: 19-JUN-1982  
; APPLICATION NUMBER: 201,359  
; FILING DATE: 27-OCT-1980  
; SEQ ID NO: 4  
; LENGTH: 166  
5514567-4

Query Match 93.9%; Score 812; DB 6; Length 166;  
Best Local Similarity 94.0%; Pred. No. 3.4e-84;  
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIAAAAAFAADAALTYI 60  
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQQQKEDALTYI 60

QY 61 EMLQNFALFRQDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120  
Db |||||  
61 EMLQNFALFRQDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166  
Db |||||  
121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166

## RESULT 8

US-09-206-903A-9  
; Sequence 9, Application US/09206903A  
; Patent No. 6200780  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Jian  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Dong-Xiao  
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS  
; FILE REFERENCE: P1224-2R1  
; CURRENT APPLICATION NUMBER: US/09/206,903A  
; CURRENT FILING DATE: 1998-12-07  
; PRIOR APPLICATION NUMBER: US 60/106,463  
; PRIOR FILING DATE: 1998-10-30  
; NUMBER OF SEQ ID NOS: 12  
; SEQ ID NO 9  
; LENGTH: 187  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-206-903A-9

Query Match 93.9%; Score 812; DB 3; Length 187;  
Best Local Similarity 94.0%; Pred. No. 4e-84;  
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIAAAAAFAADAALTYI 60  
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIKQLQQQKEDALTYI 81  
QY 61 EMLQNFALFRQDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120  
Db 61 EMLQNFALFRQDSSSTGNETIVENLLANVYHQINHLKTVLEBKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 166  
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYNRLTGYLRN 187

## RESULT 9

US-08-406-030A-30  
; Sequence 30, Application US/08406030A  
; Patent No. 6270989  
; GENERAL INFORMATION:  
; APPLICANT: Treco, Douglas A.  
; APPLICANT: Heartlein, Michael W.  
; APPLICANT: Hauge, Brian M.  
; APPLICANT: Selden, Richard F.  
; TITLE OF INVENTION: Protein Production and Delivery  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: Two Militia Drive  
; CITY: Lexington  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/406,030A  
FILING DATE: 17-MAR-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/243,391  
FILING DATE: 13-MAY-1994  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/985,586  
FILING DATE: 03-DEC-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/911,533  
FILING DATE: 10-JUL-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/787,840  
FILING DATE: 05-NOV-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/789,188  
FILING DATE: 05-NOV-1991  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US93/11704  
FILING DATE: 02-DEC-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US92/09627  
FILING DATE: 05-NOV-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: Granahan, Patricia  
REGISTRATION NUMBER: 32,227  
REFERENCE/DOCKET NUMBER: TKT95-01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 861-6240  
TELEFAX: (617) 861-9540  
INFORMATION FOR SEQ ID NO: 30:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 187 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-406-030A-30

Query Match 93.9%; Score 812; DB 3; Length 187;  
Best Local Similarity 94.0%; Pred. No. 4e-84;  
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLVCYCKDRMNFDPPEIAAAAAFAAADAALTYIY 60  
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLVCYCKDRMNFDPPEIKQLQFQKEDALTYIY 81  
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 82 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166  
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 10  
US-09-202-122-9  
Sequence 9, Application US/09202122  
Patent No. 629869  
GENERAL INFORMATION:  
APPLICANT: Chen, Jian  
APPLICANT: Godowski, Paul  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Dong-Xiao  
TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON  
FILE REFERENCE: P1224R2 (filed)  
CURRENT APPLICATION NUMBER: US/09/202,122  
CURRENT FILING DATE: 1999-03-04  
PRIOR APPLICATION NUMBER: PCT/US98/25672  
PRIOR FILING DATE: 1998-12-03  
NUMBER OF SEQ ID NOS: 12  
SEQ ID NO 9

US-09-206-935-7  
Sequence 7, Application US/09206935  
Patent No. 629877  
GENERAL INFORMATION:  
APPLICANT: Chen, Jian  
APPLICANT: Godowski, Paul  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Dong-Xiao  
TITLE OF INVENTION: NOVEL TYPE I INTERFERONS  
FILE REFERENCE: 11669.50US05  
CURRENT APPLICATION NUMBER: US/09/206,935  
CURRENT FILING DATE: 1998-12-07  
EARLIER APPLICATION NUMBER: 60/084,045  
EARLIER FILING DATE: 1998-05-04  
NUMBER OF SEQ ID NOS: 24  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 7  
LENGTH: 187  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-206-935-7

Query Match 93.9%; Score 812; DB 3; Length 187;  
Best Local Similarity 94.0%; Pred. No. 4e-84;  
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLVCYCKDRMNFDPPEIAAAAAFAAADAALTYIY 60  
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLVCYCKDRMNFDPPEIKQLQFQKEDALTYIY 81  
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 82 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166  
DB 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 12  
US-09-206-936-7  
Sequence 7, Application US/09206936A  
Patent No. 6300475  
GENERAL INFORMATION:  
APPLICANT: Chen, Jian  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Dong-Xiao  
TITLE OF INVENTION: NO. 6300475el Interferon  
FILE REFERENCE: P1224R1  
CURRENT APPLICATION NUMBER: US/09/206,936A  
CURRENT FILING DATE: 1998-12-07

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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-206-936-7

Query Match          93.9%; Score 812; DB 4; Length 187;
Best Local Similarity 94.0%; Pred. No. 4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIAAAAFADAALTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKDAALTY 81
Qy 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQNHLKTVLEKLEKEDFTGALMSSL 120
Db 82 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQNHLKTVLEKLEKEDFTGALMSSL 141
Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTYLGN 166
Db 142 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTYLGN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
; CURRENT APPLICATION NUMBER: US/09/487,792
; CURRENT FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-487-792-4

Query Match          93.9%; Score 812; DB 4; Length 187;
Best Local Similarity 94.0%; Pred. No. 4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIAAAAFADAALTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKDAALTY 81
Qy 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQNHLKTVLEKLEKEDFTGALMSSL 120
Db 82 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQNHLKTVLEKLEKEDFTGALMSSL 141
Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTYLGN 166
Db 142 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTYLGN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; PRIOR APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-908-594-4

Query Match          93.9%; Score 812; DB 4; Length 187;
Best Local Similarity 94.0%; Pred. No. 4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIAAAAFADAALTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKDAALTY 81
Qy 61 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQNHLKTVLEKLEKEDFTGALMSSL 120
Db 82 EMLQNIFAIFQDSSSTGWNETIVENLLANYHQNHLKTVLEKLEKEDFTGALMSSL 141
Qy 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTYLGN 166
Db 142 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYRINRLTYLGN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/256672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
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; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-919-622A-9

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Best Local Similarity 94.0%; Pred. No. 4e-84;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIAAAAFADAALTY 60
Db 22 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKQLQFQKDAALTY 81
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Qy	121	HLKRY	YGRILHYLKAKEYSHCAWTIVR	VEILNPFYRINRLTGYLEN	166
Db	142	HLKRY	YGRILHYLKAKEYSHCAWTIVR	VEILNPFYRINRLTGYLEN	187

Search completed: May 19, 2004, 14:26:10  
Job time : 13.8 secs

GenCore version 5.1.6  
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## OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds  
(without alignments)  
1391.307 Million cell updates/sec

Title: US-09-832-659A-49  
Perfect score: 865  
Sequence: 1 MSYNLLGFLQSSNFQCKL.....RVEILNFYRNLTGYLRN 166

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
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18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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1	825	95.4	166	10	US-09-832-658-24
2	812	93.9	166	10	US-09-832-658-24
3	812	93.9	166	12	US-09-832-658-24
4	812	93.9	166	14	US-09-832-658-24
5	812	93.9	166	14	US-09-832-658-24
6	812	93.9	166	14	US-09-832-658-24
7	812	93.9	166	14	US-09-832-658-24
8	812	93.9	166	14	US-09-832-658-24
9	812	93.9	166	14	US-09-832-658-24
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11	812	93.9	166	14	US-09-832-658-24
12	812	93.9	166	14	US-09-832-658-24
13	812	93.9	166	15	US-09-832-658-24
14	812	93.9	166	16	US-09-832-658-24
15	812	93.9	166	16	US-09-832-658-24

16 812 93.9 183 10 US-09-832-658-24 Sequence 2, Appli  
17 812 93.9 186 12 US-10-449-831A-146 Sequence 146, App  
18 812 93.9 187 9 US-09-788-552-1 Sequence 1, Appli  
19 812 93.9 187 9 US-09-919-632A-9 Sequence 9, Appli  
20 812 93.9 187 12 US-10-411-037-6 Sequence 6, Appli  
21 812 93.9 187 12 US-09-881-050-17 Sequence 17, Appli  
22 812 93.9 187 12 US-10-411-026-6 Sequence 6, Appli  
23 812 93.9 187 13 US-10-004-201-2 Sequence 2, Appli  
24 812 93.9 187 14 US-10-096-373-2 Sequence 2, Appli  
25 812 93.9 187 14 US-10-418-038-9 Sequence 9, Appli  
26 812 93.9 187 16 US-10-410-962-6 Sequence 6, Appli  
27 812 93.9 187 16 US-10-411-049-6 Sequence 11, Appli  
28 812 93.9 187 16 US-09-766-920B-11 Sequence 132, App  
29 812 93.9 234 12 US-10-449-831A-192 Sequence 2, Appli  
30 812 93.9 399 9 US-09-832-659-2 Sequence 2, Appli  
31 810 93.6 166 12 US-10-035-420-1 Sequence 1, Appli  
32 810 93.6 166 12 US-10-010-448-1 Sequence 7, Appli  
33 809 93.5 187 9 US-09-927-850-7 Sequence 2, Appli  
34 805 93.1 166 9 US-09-788-552-2 Sequence 42, Appli  
35 803 92.8 418 9 US-09-832-659-42 Sequence 44, Appli  
36 803 92.8 423 9 US-09-832-659-44 Sequence 2, Appli  
37 802 92.7 166 14 US-10-246-932-2 Sequence 1, Appli  
38 801 92.6 166 15 US-10-168-956A-1 Sequence 2, Appli  
39 800 92.5 166 12 US-10-035-420-2 Sequence 2, Appli  
40 800 92.5 166 12 US-10-010-448-2 Sequence 29, Appli  
41 783.5 90.6 167 10 US-09-832-658-29 Sequence 23, Appli  
42 780 90.2 166 14 US-10-449-456-23 Sequence 56, Appli  
43 780 90.2 166 16 US-10-448-667-23 Sequence 56, Appli  
44 778 89.9 166 14 US-10-084-706-56 Sequence 56, Appli  
45 778 89.9 166 15 US-10-609-296-56 Sequence 56, Appli

## ALIGNMENTS

RESULT 1  
US-09-832-658-24  
; Sequence 24, Application US/09832658  
; Publication No. US20030021765A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; APPLICANT: Pepinsky, Blake  
; APPLICANT: Runkel, Laura  
; APPLICANT: Bruckelmaier, Margot  
; APPLICANT: Whitty, Adrian  
; APPLICANT: Hochman, Paula  
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a  
; TITLE OF INVENTION: and Uses  
; FILE REFERENCE: A065PCT  
; CURRENT APPLICATION NUMBER: US/09/832,658  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/104,572  
; PRIOR FILING DATE: 1998-10-16  
; PRIOR APPLICATION NUMBER: 60/120,161  
; PRIOR FILING DATE: 1999-02-16  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: human  
US-09-832-658-24

Query Match 95.4%; Score 825; DB 10; Length 166;  
Best Local Similarity 95.2%; Pred. No. 2.9e-81;  
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLWQLNGRLEYCLKDRMNFDPPEIAAAFAAADAALTY 60  
DB 1 MSYNLLGFLQSSNFQCKLWQLNGRLEYCLKDRMNFDPPEIKOLOQFKEDAALTY 60  
QY 61 EMLONTAIPRODSSTGTNWTIVENLLANTVQINHLKTVLEEKLEKEDFTFGALMSSL 120

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Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7
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Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
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Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIKOQFOKEDALTY 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
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US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Suhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT
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; ORGANISM: Homo sapiens
US-09-732-436-16
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Best Local Similarity 94.0%; Pred. No. 7.5e-80;
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Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEEIKOLOQFOKEDALTY 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorraine
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PPI8399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1
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QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANYVHQLNHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFRINRLTGYLRN 166
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; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxygen APS
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
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; ORGANISM: Homo sapiens
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DB 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEEIKQLQQFKEDAALTY 60
QY 61 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQNHLKTVLEBKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQNHLKTVLEBKLEKEDFTRGALMSSL 120
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DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYRINRLTGYLNR 166

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US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
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; ORGANISM: Homo sapiens
US-10-400-377-5

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QY 61 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQNHLKTVLEBKLEKEDFTRGALMSSL 120
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QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYRINRLTGYLNR 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYRINRLTGYLNR 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US20030166865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

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Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

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QY 61 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQNHLKTVLEBKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRQDSSSTGNETIVENLLANVYHQNHLKTVLEBKLEKEDFTRGALMSSL 120
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DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYRINRLTGYLNR 166

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US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsgard
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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/ NAME/KEY: CHAIN
/ LOCATION: (1) ... (166)
/ OTHER INFORMATION: hifNB mature sequence
US-10-084-706-2

Query Match      93.9%; Score 812; DB 14; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEEIAAAAFAAADAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEEIKQLQOFKEDAAALTYI 60
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 9
US-10-298-148-5
/ Sequence 5, Application US/10298148
/ Publication No. US20030171284A1
/ GENERAL INFORMATION:
/ APPLICANT: Cox III, George N
/ APPLICANT: Bolder Biotechnology, Inc.
/ TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
/ FILE REFERENCE: 4152-1-PUS
/ CURRENT APPLICATION NUMBER: US/10/298,148
/ CURRENT FILING DATE: 2002-11-15
/ PRIOR APPLICATION NUMBER: US/09/462,941
/ PRIOR FILING DATE: 2000-01-14
/ PRIOR APPLICATION NUMBER: 60/052,516
/ PRIOR FILING DATE: 1997-07-14
/ NUMBER OF SEQ ID NOS: 41
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 5
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-298-148-5

Query Match      93.9%; Score 812; DB 14; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEEIAAAAFAAADAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEEIKQLQOFKEDAAALTYI 60
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 10
US-10-325-720-2
/ Sequence 2, Application US/10325720
/ Publication No. US20030175240A1
/ GENERAL INFORMATION:
/ APPLICANT: Pedersen, A.H., et al.
/ APPLICANT: Maxygen Aps
/ TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
/ FILE REFERENCE: 0202us820
/ CURRENT APPLICATION NUMBER: US/10/325,720
/ CURRENT FILING DATE: 2002-12-19

/ NAME/KEY: CHAIN
/ LOCATION: (1) ... (166)
/ OTHER INFORMATION: hifNB mature sequence
US-10-084-706-2

Query Match      93.9%; Score 812; DB 14; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEEIAAAAFAAADAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEEIKQLQOFKEDAAALTYI 60
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 11
US-10-351-189-2
/ Sequence 2, Application US/10351189
/ Publication No. US20030175241A1
/ GENERAL INFORMATION:
/ APPLICANT: Pedersen, A.H., et al.
/ APPLICANT: Maxygen Aps
/ TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
/ FILE REFERENCE: 0202us830
/ CURRENT APPLICATION NUMBER: US/10/351,189
/ CURRENT FILING DATE: 2003-01-24
/ PRIOR APPLICATION NUMBER: US 09/648,569
/ PRIOR FILING DATE: 2000-08-25
/ NUMBER OF SEQ ID NOS: 45
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 2
/ LENGTH: 166
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-351-189-2

Query Match      93.9%; Score 812; DB 14; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEEIAAAAFAAADAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEEIKQLQOFKEDAAALTYI 60
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 12
US-10-449-456-1
/ Sequence 1, Application US/10449456
/ Publication No. US2003018686A1
/ GENERAL INFORMATION:
/ APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
/ APPLICANT: Schneider-Fresenius, Christian
/ APPLICANT: Otto, Bernd
```

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; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          93.9%; Score 812; DB 14; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEEIAAAAAFAAADAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEEIKQLQQFQKEDAALTYI 60
Qy 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQNHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQNHLKTVLEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRN 166
Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalgard
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen A/S
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hifNB mature sequence
US-10-609-296-2

Query Match          93.9%; Score 812; DB 15; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEEIAAAAAFAAADAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEEIKQLQQFQKEDAALTYI 60
Qy 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQNHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQNHLKTVLEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRN 166
Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          93.9%; Score 812; DB 16; Length 166;
Best Local Similarity 94.0%; Pred. No. 7.5e-80;
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEEIAAAAAFAAADAALTYI 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEEIKQLQQFQKEDAALTYI 60
Qy 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQNHLKTVLEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFQDSSSTGWNTEIVENLLANVYHQNHLKTVLEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRN 166
Db 121 HLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYRINRLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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Patent No. US2002015547A1  
GENERAL INFORMATION:  
APPLICANT: BIOGEN, INC.  
TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses  
FILE REFERENCE: A064PCTSEQ  
CURRENT APPLICATION NUMBER: US/09/832,659  
CURRENT FILING DATE: 2001-04-11  
PRIOR APPLICATION NUMBER: 60/120,237  
PRIOR FILING DATE: 1999-02-16  
PRIOR APPLICATION NUMBER: 60/104,491  
PRIOR FILING DATE: 1998-10-16  
NUMBER OF SEQ ID NOS: 44  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 4  
LENGTH: 183  
TYPE: PRT  
ORGANISM: murine  
US-09-832-659-4

Query Match 93.9%; Score 812; DB 9; Length 183;  
Best Local Similarity 94.0%; Pred. No. 8.6e-80;  
Matches 156; Conservative 0; Mismatches 10; Indels 0; Gaps 0;  
QY 1 MSYNLGLFQSSNFQCKLLWQLNGRLEYCLKDRWNFDIPEEIAAAAAAPAAADAALTIY 60  
DB 18 MSYNLGLFQSSNFQCKLLWQLNGRLEYCLKDRWNFDIPEEIXQLQCFQKEDALTIY 77  
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 120  
DB 78 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEKLEKEDFTRGALMSSL 137  
QY 121 HLKRYGRILHLYLKAKYSHCAWTIVRVEILNRYFINRLTGYLRN 166  
DB 138 HLKRYGRILHLYLKAKYSHCAWTIVRVEILNRYFINRLTGYLRN 183

Search completed: May 19, 2004, 15:19:58  
Job time : 33.2 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds  
(without alignments)

1391.307 Million cell updates/sec

Title: US-09-832-659A-48

Perfect score: 866

Sequence: 1 MSYNLLGLFQSSNFQCKL.....RVEILRNRYINRLTGYLRN 166

Scoring table: BIOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_US07\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
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- 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
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- 18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	844	97.5	166	10	US-09-832-658-24
2	831	96.0	166	10	US-09-971-843-7
3	831	96.0	166	12	US-09-732-436-16
4	831	96.0	166	14	US-10-246-832-1
5	831	96.0	166	14	US-10-186-962-1
6	831	96.0	166	14	US-10-400-377-5
7	831	96.0	166	14	US-10-400-708-5
8	831	96.0	166	14	US-10-084-706-2
9	831	96.0	166	14	US-10-288-148-5
10	831	96.0	166	14	US-10-325-720-2
11	831	96.0	166	14	US-10-351-189-2
12	831	96.0	166	14	US-10-449-456-1
13	831	96.0	166	15	US-10-609-296-2
14	831	96.0	166	16	US-10-448-667-1
15	831	96.0	183	9	US-09-832-659-4

16	831	96.0	183	10	US-09-832-658-2	Sequence 2, Appli
17	831	96.0	186	12	US-10-449-831A-146	Sequence 146, App
18	831	96.0	187	9	US-09-788-552-1	Sequence 1, Appli
19	831	96.0	187	9	US-09-919-622A-9	Sequence 9, Appli
20	831	96.0	187	12	US-10-411-037-6	Sequence 6, Appli
21	831	96.0	187	12	US-09-881-050-17	Sequence 17, Appli
22	831	96.0	187	12	US-10-411-026-6	Sequence 6, Appli
23	831	96.0	187	13	US-10-004-201-2	Sequence 2, Appli
24	831	96.0	187	14	US-10-096-373-2	Sequence 2, Appli
25	831	96.0	187	14	US-10-418-038-9	Sequence 9, Appli
26	831	96.0	187	16	US-10-410-962-6	Sequence 6, Appli
27	831	96.0	187	16	US-10-411-049-6	Sequence 11, Appli
28	831	96.0	199	12	US-03-766-320B-11	Sequence 192, App
29	831	96.0	234	12	US-10-449-831A-192	Sequence 2, Appli
30	831	96.0	399	9	US-09-832-659-2	Sequence 1, Appli
31	829	95.7	166	12	US-10-035-420-1	Sequence 1, Appli
32	829	95.7	166	12	US-10-010-448-1	Sequence 7, Appli
33	828	95.6	187	9	US-09-927-850-7	Sequence 2, Appli
34	825	95.3	166	10	US-09-832-658-28	Sequence 42, Appl
35	824	95.2	166	9	US-09-788-552-2	Sequence 44, Appl
36	822	94.9	418	9	US-09-832-659-42	Sequence 2, Appli
37	822	94.9	423	9	US-09-832-659-44	Sequence 2, Appli
38	821	94.8	166	14	US-10-246-832-2	Sequence 2, Appli
39	820	94.7	166	15	US-10-168-956A-1	Sequence 2, Appli
40	819	94.6	166	12	US-10-035-420-2	Sequence 2, Appli
41	819	94.6	166	12	US-10-010-448-2	Sequence 4, Appli
42	797	92.0	187	9	US-09-725-433-4	Sequence 12, Appl
43	797	92.0	187	14	US-10-284-740-12	Sequence 23, Appl
44	791	91.3	166	14	US-10-449-456-23	Sequence 23, Appl
45	791	91.3	166	16	US-10-448-667-23	Sequence 23, Appl

ALIGNMENTS

RESULT 1

US-09-832-658-24  
; Sequence 24, Application US/09832658  
; Publication No. US20030021765A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; APPLICANT: Pepinsky, Blake  
; APPLICANT: Runkel, Laura  
; APPLICANT: Brickelmaier, Margot  
; APPLICANT: Whitty, Adrian  
; APPLICANT: Hochman, Paula  
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a  
; TITLE OF INVENTION: and Uses  
; FILE REFERENCE: A065PCT  
; CURRENT APPLICATION NUMBER: US/09/832,658  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/104,572  
; PRIOR FILING DATE: 1998-10-16  
; PRIOR APPLICATION NUMBER: 60/120,161  
; PRIOR FILING DATE: 1999-02-16  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; TYPE: PRT  
; LENGTH: 166  
; ORGANISM: human  
US-09-832-658-24

Query Match	97.5%	Score	844	DB	10	Length	166
Best Local Similarity	97.6%	Pred. No.	4.9e-82				
Matches	162	Conservative	0	Mismatches	4	Indels	0
Qy	1	MSYNLLGLFQSSNFQCKLLWQNLGRLEYCLNDRAAFAPABIKOLQOFKEDAAITY	60				
Db	1	MSYNLLGLFQSSNFQCKLLWQNLGRLEYCLNDRAAFAPABIKOLQOFKEDAAITY	60				
Qy	61	EMLONTFAIPROSSSTGWNTEIVNLLANHYQHNLKYLEKLEKEDFTFGALMSSL	120				

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Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1999-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 96.0%; Score 831; DB 10; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLORSSNFQCKLLQNLNGRLEYCLKDRAAFAIPAIEIKOLOQFOKEDAAITTY 60
Db 1 MSYNLLGFLORSSNFQCKLLQNLNGRLEYCLKDRAAFAIPAIEIKOLOQFOKEDAAITTY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT
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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match 96.0%; Score 831; DB 12; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLORSSNFQCKLLQNLNGRLEYCLKDRAAFAIPAIEIKOLOQFOKEDAAITTY 60
Db 1 MSYNLLGFLORSSNFQCKLLQNLNGRLEYCLKDRAAFAIPAIEIKOLOQFOKEDAAITTY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorraine
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PPI8399, 002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match 96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLORSSNFQCKLLQNLNGRLEYCLKDRAAFAIPAIEIKOLOQFOKEDAAITTY 60
Db 1 MSYNLLGFLORSSNFQCKLLQNLNGRLEYCLKDRAAFAIPAIEIKOLOQFOKEDAAITTY 60
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQNLNGRLEYCLKDRAAFAPAEIKQLQOFQKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCKLLQNLNGRLEYCLKDRNFDIPEIKQLQOFQKEDAAITTY 60
QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGILRN 166
DB 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGILRN 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQNLNGRLEYCLKDRAAFAPAEIKQLQOFQKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCKLLQNLNGRLEYCLKDRNFDIPEIKQLQOFQKEDAAITTY 60
QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGILRN 166
DB 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGILRN 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US2003016685A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N

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; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLQNLNGRLEYCLKDRAAFAPAEIKQLQOFQKEDAAITTY 60
DB 1 MSYNLLGFLQSSNFQCKLLQNLNGRLEYCLKDRNFDIPEIKQLQOFQKEDAAITTY 60
QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGILRN 166
DB 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFRINRLTGILRN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thaisg-rd
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:

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; NAME/KEY: CHAIN
; LOCATION: (1)....(166)
; OTHER INFORMATION: h1FNB mature sequence
US-10-084-706-2

Query Match          96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKORAAFAIPAEIKQLQFQKEDAAITY 60
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Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKORMNFDIPEEIKQLQFQKEDAAITY 60
    |||||

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||

QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
    |||||
Db 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
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RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US200301712841
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Bolder Biotechnology, Inc.
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; PRIOR FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match          96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKORAAFAIPAEIKQLQFQKEDAAITY 60
    |||||
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKORMNFDIPEEIKQLQFQKEDAAITY 60
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QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||

QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
    |||||
Db 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
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RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match          96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKORAAFAIPAEIKQLQFQKEDAAITY 60
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Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKORMNFDIPEEIKQLQFQKEDAAITY 60
    |||||

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||

QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
    |||||
Db 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
    |||||

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match          96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKORAAFAIPAEIKQLQFQKEDAAITY 60
    |||||
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKORMNFDIPEEIKQLQFQKEDAAITY 60
    |||||

QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKEDFTRGALMSSL 120
    |||||

QY 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
    |||||
Db 121 HLKRYGRIILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLNR 166
    |||||

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US20030186886A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
```

```
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-449-456-1

Query Match          96.0%; Score 831; DB 14; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWLNQRLVCLKORAAFAIPAETKOLQOFQKEDAAITY 60
DQ 1 MSYNLLGFLQSSNFQCKLLWLNQRLVCLKORAAFAIPAETKOLQOFQKEDAAITY 60
QY 61 EMLQNIPIAFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDTRGKLMSSL 120
DQ 61 EMLQNIPIAFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDTRGKLMSSL 120
QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFFYNRLTGYLRN 166
DQ 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFFYNRLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Saad
; APPLICANT: DRUSTUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsgrd
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Moxysgen Aps
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; PRIOR FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFNB mature sequence
; US-10-609-296-2

Query Match          96.0%; Score 831; DB 15; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWLNQRLVCLKORAAFAIPAETKOLQOFQKEDAAITY 60
DQ 1 MSYNLLGFLQSSNFQCKLLWLNQRLVCLKORAAFAIPAETKOLQOFQKEDAAITY 60
QY 61 EMLQNIPIAFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDTRGKLMSSL 120
DQ 61 EMLQNIPIAFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDTRGKLMSSL 120
QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFFYNRLTGYLRN 166
DQ 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFFYNRLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; PRIOR FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-448-667-1

Query Match          96.0%; Score 831; DB 16; Length 166;
Best Local Similarity 96.4%; Pred. No. 1.2e-80;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWLNQRLVCLKORAAFAIPAETKOLQOFQKEDAAITY 60
DQ 1 MSYNLLGFLQSSNFQCKLLWLNQRLVCLKORAAFAIPAETKOLQOFQKEDAAITY 60
QY 61 EMLQNIPIAFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDTRGKLMSSL 120
DQ 61 EMLQNIPIAFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDTRGKLMSSL 120
QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFFYNRLTGYLRN 166
DQ 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFFYNRLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US20020155547A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses  
; FILE REFERENCE: A064ECTSEQ  
; CURRENT APPLICATION NUMBER: US/09/832,659  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/120,237  
; PRIOR FILING DATE: 1999-02-16  
; PRIOR APPLICATION NUMBER: 60/104,491  
; PRIOR FILING DATE: 1998-10-16  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 183  
; TYPE: PRT  
; ORGANISM: murine  
US-09-832-659-4

Query Match 96.0%; Score 831; DB 9; Length 183;  
Best Local Similarity 96.4%; Pred. No. 1.3e-80;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
Qy 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRAPAPAEIKQLQOFQKEDDAALTIY 60  
Db 18 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRWFDIPEIKQLQOFQKEDDAALTIY 77  
Qy 61 EMLQNIFAIPQDSSSTGWNTEIVNLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db 78 EMLQNIFAIPQDSSSTGWNTEIVNLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 137  
Qy 121 HLKRYIGRIHLHYLKAKEYSHCAWTIVRVEILNFRINLTGYLRN 166  
Db 138 HLKRYIGRIHLHYLKAKEYSHCAWTIVRVEILNFRINLTGYLRN 183

Search completed: May 19, 2004, 15:19:58  
Job time : 34.2 secs

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OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 seconds  
(without alignments)  
669.524 Million cell updates/sec

Title: US-09-832-659A-48

Perfect score: 866  
Sequence: 1 MSYNLLGFLQSSNFQCKL.....RVEILNRYINRLTGYLRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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3: /cgn2\_6/prodata/2/iaa/6A.COMB.pep:\*  
4: /cgn2\_6/prodata/2/iaa/6B.COMB.pep:\*  
5: /cgn2\_6/prodata/2/iaa/PCTUS.COMB.pep:\*  
6: /cgn2\_6/prodata/2/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	831	96.0	166	4	US-09-397-992A-7
2	831	96.0	166	4	US-09-569-722A-1
3	831	96.0	166	4	US-09-848-569A-2
4	831	96.0	166	4	US-09-971-843-7
5	831	96.0	166	4	US-09-403-532E-1
6	831	96.0	166	4	US-09-462-941-5
7	831	96.0	166	6	5514567-4
8	831	96.0	187	3	US-09-206-903A-9
9	831	96.0	187	3	US-08-406-030A-30
10	831	96.0	187	3	US-09-202-122-9
11	831	96.0	187	3	US-09-206-935-7
12	831	96.0	187	4	US-09-206-936-7
13	831	96.0	187	4	US-09-487-792-4
14	831	96.0	187	4	US-09-908-594-4
15	831	96.0	187	4	US-09-919-622A-9
16	831	96.0	187	6	5514567-1
17	831	96.0	415	4	US-09-215-212-14
18	831	96.0	415	2	US-08-477-310A-1
19	826	95.4	166	1	US-08-213-448-1
20	826	95.4	166	3	US-08-912-768-1
21	826	95.4	166	4	US-09-569-722A-4
22	826	95.4	166	4	US-09-569-722A-18
23	826	95.4	166	5	PCT-US95-03206-1
24	826	95.4	187	3	US-08-912-758-3
25	824	95.2	166	4	US-09-487-792-21
26	824	95.2	166	4	US-09-908-594-21
27	823	95.0	187	1	US-08-026-756-22

#### ALIGNMENTS

RESULT 1  
US-09-397-992A-7  
; Sequence 7, Application US/09397992A  
; Patent No. 6329175  
; GENERAL INFORMATION:

; APPLICANT: Conklin, Darrell  
; APPLICANT: Grant, Francis J.  
; APPLICANT: Rixon, Mark W.  
; APPLICANT: Kindsvogel, Wayne  
; TITLE OF INVENTION: Interferon-epsilon  
; FILE REFERENCE: 98-46  
; CURRENT APPLICATION NUMBER: US/09/397,992A  
; PRIOR FILING DATE: 1999-09-16  
; PRIOR APPLICATION NUMBER: 60/101,012  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/118,578  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/142,766  
; PRIOR FILING DATE: 1999-07-08  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FASTSEQ for Windows Version 3.0  
; SEQ ID NO 7

; LENGTH: 166

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-397-992A-7

Query Match  
Best Local Similarity 96.0%; Score 831; DB 4; Length 166;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY	1	MSYNLLGFLQSSNFQCKLWOLNGRLVCLKDRRAFAIPATKIQQFKEDALTYI	60
Db	1	MSYNLLGFLQSSNFQCKLWOLNGRLVCLKDRMNFDPETIKQCKQFKEDALTYI	60
QY	61	EMLQNIFAIPQDSSSTGWNETIVENLLANVYHQLNHLKTVLEEKLEKEDFTGALMSSL	120
Db	61	EMLQNIFAIPQDSSSTGWNETIVENLLANVYHQLNHLKTVLEEKLEKEDFTGALMSSL	120
QY	121	HLKRYGRILYHLKAKYSHCAWTIVRILNRYINRLTGYLRN	166
Db	121	HLKRYGRILYHLKAKYSHCAWTIVRILNRYINRLTGYLRN	166

RESULT 2  
US-09-569-722A-1  
; Sequence 1, Application US/09569722A  
; Patent No. 6514729  
; GENERAL INFORMATION:  
; APPLICANT: Bentzien, Joerg M

; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY  
; FILE REFERENCE: A-68059-1/REF/RMS/RMK  
; CURRENT APPLICATION NUMBER: US/09/569,722A  
; CURRENT FILING DATE: 2000-05-11  
; PRIOR APPLICATION NUMBER: US 60/133,785  
; PRIOR FILING DATE: 1999-05-12  
; NUMBER OF SEQ ID NOS: 24  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-569-722A-1

Query Match 96.0%; Score 831; DB 4; Length 166;  
Best Local Similarity 96.4%; Pred. No. 5.2e-85;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRAAFAIPAIEIKOLOQFQKEDAAITY 60  
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60  
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKYSHCAWTVIRVEILNFRINRLTGYLRN 166  
Db 121 HLKRYVGRILHYLKAKYSHCAWTVIRVEILNFRINRLTGYLRN 166

## RESULT 3

US-09-648-569A-2  
; Sequence 2, Application US/09648569A  
; Patent No. 6531122  
; GENERAL INFORMATION:  
; APPLICANT: Pedersen, A.H., et al.  
; APPLICANT: Maxygen Aps  
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates  
; FILE REFERENCE: 0202us810  
; CURRENT APPLICATION NUMBER: US/09/648,569A  
; CURRENT FILING DATE: 2000-08-25  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-648-569A-2

Query Match 96.0%; Score 831; DB 4; Length 166;  
Best Local Similarity 96.4%; Pred. No. 5.2e-85;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRAAFAIPAIEIKOLOQFQKEDAAITY 60  
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60  
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKYSHCAWTVIRVEILNFRINRLTGYLRN 166  
Db 121 HLKRYVGRILHYLKAKYSHCAWTVIRVEILNFRINRLTGYLRN 166

## RESULT 4

US-09-971-843-7  
; Sequence 7, Application US/09971843  
; Patent No. 6544505  
; GENERAL INFORMATION:  
; APPLICANT: Conklin, Darrell C.

; APPLICANT: Grant, Francis J.  
; APPLICANT: Rixon, Mark W.  
; APPLICANT: Kindevogel, Wayne  
; TITLE OF INVENTION: Interferon-epsilon  
; FILE REFERENCE: 98-46D1  
; CURRENT APPLICATION NUMBER: US/09/971,843  
; CURRENT FILING DATE: 2001-10-04  
; PRIOR APPLICATION NUMBER: 60/101,012  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/118,578  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/142,766  
; PRIOR FILING DATE: 1999-07-08  
; PRIOR APPLICATION NUMBER: 09/397,992  
; PRIOR FILING DATE: 1999-09-16  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-971-843-7

Query Match 96.0%; Score 831; DB 4; Length 166;  
Best Local Similarity 96.4%; Pred. No. 5.2e-85;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRAAFAIPAIEIKOLOQFQKEDAAITY 60  
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60  
QY 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKYSHCAWTVIRVEILNFRINRLTGYLRN 166  
Db 121 HLKRYVGRILHYLKAKYSHCAWTVIRVEILNFRINRLTGYLRN 166

## RESULT 5

US-09-403-532E-1  
; Sequence 1, Application US/09403532E  
; Patent No. 6572853  
; GENERAL INFORMATION:  
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand  
; APPLICANT: Schneider-Fresenius, Christian  
; APPLICANT: Otto, Bernd  
; APPLICANT: Waschutz, Gero  
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY  
; FILE REFERENCE: 127-65050  
; CURRENT APPLICATION NUMBER: US/09/403,532E  
; CURRENT FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238  
; PRIOR FILING DATE: 1998-04-16  
; PRIOR APPLICATION NUMBER: DE 19717864.2  
; PRIOR FILING DATE: 1997-04-23  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 1  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-403-532E-1

Query Match 96.0%; Score 831; DB 4; Length 166;  
Best Local Similarity 96.4%; Pred. No. 5.2e-85;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRAAFAIPAIEIKOLOQFQKEDAAITY 60  
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLCYCLKDRMNFDPPEIKOLOQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166  
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 6  
US-09-462-941-5  
; Sequence 5, Application US/09462941  
; Patent No. 6608183  
; GENERAL INFORMATION:  
; APPLICANT: Cox III, George N  
; APPLICANT: Bolder Biotechnology, Inc.  
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins  
; FILE REFERENCE: 4152-1-PUS  
; CURRENT APPLICATION NUMBER: US/09/462,941  
; CURRENT FILING DATE: 2000-01-14  
; PRIOR APPLICATION NUMBER: 60/052,516  
; PRIOR FILING DATE: 1997-07-14  
; NUMBER OF SEQ ID NOS: 41  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-462-941-5

Query Match 96.0%; Score 831; DB 4; Length 166;  
Best Local Similarity 96.4%; Pred. No. 5.2e-85;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRAPFAIPAEIKOLOQFOKEDAAALTY 60  
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60  
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166  
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 7  
5514567-4  
; Patent No. 5514567  
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,  
; TADATSUGU  
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID  
; NUMBER OF SEQUENCES: 5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/400,179  
; FILING DATE: 06-MAR-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 389,922  
; FILING DATE: 18-JUN-1982  
; APPLICATION NUMBER: 201,359  
; FILING DATE: 27-OCT-1980  
; SEQ ID NO: 4  
; LENGTH: 166  
5514567-4

Query Match 96.0%; Score 831; DB 6; Length 166;  
Best Local Similarity 96.4%; Pred. No. 5.2e-85;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRAPFAIPAEIKOLOQFOKEDAAALTY 60  
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 60

QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166  
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 8  
US-09-206-903A-9  
; Sequence 9, Application US/09206903A  
; Patent No. 6200780  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Jian  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Dong-Xiao  
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS  
; FILE REFERENCE: P1224-2R1  
; CURRENT APPLICATION NUMBER: US/09/206,903A  
; CURRENT FILING DATE: 1998-12-07  
; PRIOR APPLICATION NUMBER: US 60/106,463  
; PRIOR FILING DATE: 1998-10-30  
; NUMBER OF SEQ ID NOS: 12  
; SEQ ID NO 9  
; LENGTH: 187  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-206-903A-9

Query Match 96.0%; Score 831; DB 3; Length 187;  
Best Local Similarity 96.4%; Pred. No. 6.1e-85;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRAPFAIPAEIKOLOQFOKEDAAALTY 60  
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTY 81  
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db 82 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166  
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 187

RESULT 9  
US-08-406-030A-30  
; Sequence 30, Application US/08406030A  
; Patent No. 6270999  
; GENERAL INFORMATION:  
; APPLICANT: Treco, Douglas A.  
; APPLICANT: Heartlein, Michael W.  
; APPLICANT: Hauge, Brian M.  
; APPLICANT: Selden, Richard F.  
; TITLE OF INVENTION: Protein Production and Delivery  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: Two Militia Drive  
; CITY: Lexington  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:

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/ APPLICATION NUMBER: US/08/406,030A
/ FILING DATE: 17-MAR-1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/243,391
/ FILING DATE: 13-MAY-1994
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/985,586
/ FILING DATE: 03-DEC-1992
/ APPLICATION DATA:
/ APPLICATION NUMBER: US 07/911,533
/ FILING DATE: 10-JUL-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/787,840
/ FILING DATE: 05-NOV-1991
/ APPLICATION DATA:
/ APPLICATION NUMBER: US 07/789,188
/ FILING DATE: 05-NOV-1991
/ APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US93/11704
/ FILING DATE: 02-DEC-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US92/09627
/ FILING DATE: 05-NOV-1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Granahan, Patricia
/ REGISTRATION NUMBER: 32,227
/ REFERENCE/DOCKET NUMBER: TKT95-01
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 861-6240
/ TELEFAX: (617) 861-9540
/ INFORMATION FOR SEQ ID NO: 30:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 187 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-406-030A-30

Query Match          96.0%; Score 831; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.1e-85;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRAPAFPAEIKQLQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81
QY 61 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYGRILHYLKAKEYSHCAWTVRVEILRNFYINRLTGYLRN 166
DB 142 HLKRYGRILHYLKAKEYSHCAWTVRVEILRNFYINRLTGYLRN 187

RESULT 11
US-09-206-935-7
/ Sequence 7, Application US/09206935
/ GENERAL INFORMATION:
/ PATENT NO. 6299877
/ APPLICANT: Chen, Jian
/ APPLICANT: Godowski, Paul
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Dong-Xiao
/ TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
/ FILE REFERENCE: 11669.SOUS05
/ CURRENT APPLICATION NUMBER: US/09/206,935
/ CURRENT FILING DATE: 1998-12-07
/ EARLIER APPLICATION NUMBER: 60/084,045
/ EARLIER FILING DATE: 1998-05-04
/ NUMBER OF SEQ ID NOS: 24
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO: 7
/ LENGTH: 187
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-09-206-935-7

Query Match          96.0%; Score 831; DB 3; Length 187;
Best Local Similarity 96.4%; Pred. No. 6.1e-85;
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRAPAFPAEIKQLQFQKEDAAITY 60
DB 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKQLQFQKEDAAITY 81
QY 61 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
DB 82 EMLQNIFAIPRODSSSTGWNETHVENLLANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYGRILHYLKAKEYSHCAWTVRVEILRNFYINRLTGYLRN 166
DB 142 HLKRYGRILHYLKAKEYSHCAWTVRVEILRNFYINRLTGYLRN 187

RESULT 12
US-09-206-936-7
/ Sequence 7, Application US/09206936A
/ GENERAL INFORMATION:
/ PATENT NO. 6300475
/ APPLICANT: Chen, Jian
/ APPLICANT: Godowski, Paul
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: NO. 6300475el Interferon
/ FILE REFERENCE: P1224R1
/ CURRENT APPLICATION NUMBER: US/09/206,936A
/ CURRENT FILING DATE: 1998-12-07
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EARLIER APPLICATION NUMBER: US 60/067,897  
EARLIER FILING DATE: 1998-12-08  
NUMBER OF SEQ ID NOS: 22  
SEQ ID NO 7  
LENGTH: 187  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-206-936-7

Query Match 96.0%; Score 831; DB 4; Length 187;  
Best Local Similarity 96.4%; Pred. No. 6.1e-85;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRAPAFAPAEIKOLOQFOKEDAAITY 60  
Db 22 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 81

Qy 61 EMLQNIFAIFRODSSSTGWNETHVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db 82 EMLQNIFAIFRODSSSTGWNETHVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 141

Qy 121 HLKRYGRIILHYLKAKESHCAWTVRVEILRNFRINRLTGYLRN 166  
Db 142 HLKRYGRIILHYLKAKESHCAWTVRVEILRNFRINRLTGYLRN 187

RESULT 13  
US-09-487-792-4  
Sequence 4, Application US/09487792  
Patent No. 6433145  
GENERAL INFORMATION:  
APPLICANT: Human Genome Sciences, Inc.  
TITLE OF INVENTION: Keratinocyte Derived Interferon  
FILE REFERENCE: PF482P1  
CURRENT APPLICATION NUMBER: US/09/487,792  
CURRENT FILING DATE: 2000-01-20  
EARLIER APPLICATION NUMBER: 60/093,643  
EARLIER FILING DATE: 1998-07-21  
EARLIER FILING DATE: 1998-07-21  
EARLIER APPLICATION NUMBER: PCT/US99/16424  
EARLIER FILING DATE: 1999-07-21  
NUMBER OF SEQ ID NOS: 54  
SOFTWARE: Patent In Ver. 2.1  
SEQ ID NO 4  
LENGTH: 187  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-487-792-4

Query Match 96.0%; Score 831; DB 4; Length 187;  
Best Local Similarity 96.4%; Pred. No. 6.1e-85;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRAPAFAPAEIKOLOQFOKEDAAITY 60  
Db 22 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 81

Qy 61 EMLQNIFAIFRODSSSTGWNETHVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db 82 EMLQNIFAIFRODSSSTGWNETHVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 141

Qy 121 HLKRYGRIILHYLKAKESHCAWTVRVEILRNFRINRLTGYLRN 166  
Db 142 HLKRYGRIILHYLKAKESHCAWTVRVEILRNFRINRLTGYLRN 187

RESULT 14  
US-09-908-594-4  
Sequence 4, Application US/09908594  
Patent No. 6472512  
GENERAL INFORMATION:  
APPLICANT: Lapleur, et al.  
TITLE OF INVENTION: Keratinocyte Derived Interferon  
FILE REFERENCE: PF482P2

CURRENT APPLICATION NUMBER: US/09/908,594  
CURRENT FILING DATE: 2001-07-20  
PRIOR APPLICATION NUMBER: 60/292,934  
PRIOR FILING DATE: 2001-05-24  
PRIOR APPLICATION NUMBER: 60/219,621  
PRIOR FILING DATE: 2000-07-21  
PRIOR APPLICATION NUMBER: 09/487,792  
PRIOR FILING DATE: 2000-01-20  
PRIOR APPLICATION NUMBER: US00/01239  
PRIOR FILING DATE: 2000-01-20  
PRIOR APPLICATION NUMBER: 09/358,587  
PRIOR FILING DATE: 1999-07-21  
PRIOR APPLICATION NUMBER: US99/16424  
PRIOR FILING DATE: 1999-07-21  
PRIOR APPLICATION NUMBER: 60/093,643  
NUMBER OF SEQ ID NOS: 57  
SOFTWARE: Patent In Ver. 2.1  
SEQ ID NO 4  
LENGTH: 187  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-908-594-4

Query Match 96.0%; Score 831; DB 4; Length 187;  
Best Local Similarity 96.4%; Pred. No. 6.1e-85;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRAPAFAPAEIKOLOQFOKEDAAITY 60  
Db 22 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 81

Qy 61 EMLQNIFAIFRODSSSTGWNETHVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db 82 EMLQNIFAIFRODSSSTGWNETHVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 141

Qy 121 HLKRYGRIILHYLKAKESHCAWTVRVEILRNFRINRLTGYLRN 166  
Db 142 HLKRYGRIILHYLKAKESHCAWTVRVEILRNFRINRLTGYLRN 187

RESULT 15  
US-09-919-622A-9  
Sequence 9, Application US/09919622A  
Patent No. 6569420  
GENERAL INFORMATION:  
APPLICANT: Chen, Jian  
APPLICANT: Godowski, Paul  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Dong-Xiao  
TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON  
FILE REFERENCE: P1224R2C1 (replacement)  
CURRENT APPLICATION NUMBER: US/09/919,622A  
CURRENT FILING DATE: 2001-07-30  
PRIOR APPLICATION NUMBER: US 09/202122,  
PRIOR FILING DATE: 1999-03-04  
PRIOR APPLICATION NUMBER: PCT/US98/25672  
PRIOR FILING DATE: 1998-12-03  
NUMBER OF SEQ ID NOS: 12  
SEQ ID NO 9  
LENGTH: 187  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-919-622A-9

Query Match 96.0%; Score 831; DB 4; Length 187;  
Best Local Similarity 96.4%; Pred. No. 6.1e-85;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRAPAFAPAEIKOLOQFOKEDAAITY 60  
Db 22 MSYNLLGFLQSSNFQCKLLQWLNGLRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 81

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Db	82	EMLQNI	PAIF	QDSS	STG	WNET	I	VEN	L	L	A	N	V	Y	H	Q	I	N	H	L	K	T	V	L	B	E	K	L	E	X	E	D	F	T	R	G	A	L	M	S	S	L	141
Qy	121	HLKRY	YGR	I	L	H	Y	L	K	A	K	E	Y	S	H	C	A	W	T	I	V	R	V	E	I	L	R	N	F	I	N	R	L	T	G	Y	L	R	N	166			
Db	142	HLKRY	YGR	I	L	H	Y	L	K	A	K	E	Y	S	H	C	A	W	T	I	V	R	V	E	I	L	R	N	F	I	N	R	L	T	G	Y	L	R	N	187			

Search completed: May 19, 2004, 14:26:09  
Job time : 12.8 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds  
(without alignments)  
1391.307 Million cell updates/sec

Title: US-09-832-659A-47

Perfect score: 867

Sequence: 1 MSYLLGLFQRSSNFQCKL.....RVEILNFRINRLTGLN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*

- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US05\_PUBCOMB.pep.\*
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- 5: /cgn2\_6/ptodata/2/pubpaa/US03\_PUBCOMB.pep.\*
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- 9: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pep.\*
- 10: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
- 11: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
- 13: /cgn2\_6/ptodata/2/pubpaa/US05\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/2/pubpaa/US04\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/2/pubpaa/US03\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US02\_PUBCOMB.pep.\*
- 17: /cgn2\_6/ptodata/2/pubpaa/US01\_PUBCOMB.pep.\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US00\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	841	97.0	166	US-09-832-658-24	Sequence 24, Appli
2	828	95.5	166	US-09-832-658-24	Sequence 7, Appli
3	828	95.5	166	US-09-832-658-27	Sequence 27, Appli
4	828	95.5	166	US-09-832-658-16	Sequence 16, Appli
5	828	95.5	166	US-10-246-932-1	Sequence 1, Appli
6	828	95.5	166	US-10-186-962-1	Sequence 1, Appli
7	828	95.5	166	US-10-400-377-5	Sequence 5, Appli
8	828	95.5	166	US-10-400-708-5	Sequence 5, Appli
9	828	95.5	166	US-10-084-706-2	Sequence 2, Appli
10	828	95.5	166	US-10-298-148-5	Sequence 5, Appli
11	828	95.5	166	US-10-325-720-2	Sequence 2, Appli
12	828	95.5	166	US-10-351-189-2	Sequence 1, Appli
13	828	95.5	166	US-10-448-456-1	Sequence 2, Appli
14	828	95.5	166	US-10-609-236-2	Sequence 2, Appli
15	828	95.5	166	US-10-448-667-1	Sequence 1, Appli

16	828	95.5	183	9	US-09-832-659-4	Sequence 4, Appli
17	828	95.5	183	10	US-09-832-658-2	Sequence 2, Appli
18	828	95.5	186	12	US-10-449-831A-146	Sequence 146, App
19	828	95.5	187	9	US-09-788-552-1	Sequence 1, Appli
20	828	95.5	187	9	US-09-919-632A-9	Sequence 9, Appli
21	828	95.5	187	12	US-10-411-037-6	Sequence 6, Appli
22	828	95.5	187	12	US-09-881-050-17	Sequence 17, Appli
23	828	95.5	187	12	US-10-411-026-6	Sequence 6, Appli
24	828	95.5	187	13	US-10-004-201-2	Sequence 2, Appli
25	828	95.5	187	14	US-10-096-373-2	Sequence 2, Appli
26	828	95.5	187	14	US-10-418-038-9	Sequence 9, Appli
27	828	95.5	187	16	US-10-410-962-6	Sequence 6, Appli
28	828	95.5	187	16	US-10-411-049-6	Sequence 6, Appli
29	828	95.5	199	12	US-09-766-920B-11	Sequence 11, Appli
30	828	95.5	234	12	US-10-449-831A-192	Sequence 192, App
31	828	95.5	399	9	US-09-832-659-2	Sequence 2, Appli
32	828	95.5	399	9	US-10-035-420-1	Sequence 1, Appli
33	828	95.5	399	9	US-10-010-448-1	Sequence 1, Appli
34	828	95.5	399	9	US-09-927-850-7	Sequence 7, Appli
35	828	95.5	399	9	US-09-788-552-2	Sequence 2, Appli
36	828	95.5	418	9	US-09-832-659-42	Sequence 42, Appli
37	828	95.5	423	9	US-09-832-659-44	Sequence 44, Appli
38	828	95.5	423	9	US-10-246-932-2	Sequence 2, Appli
39	828	95.5	423	9	US-10-168-956A-1	Sequence 1, Appli
40	828	95.5	423	9	US-10-035-420-2	Sequence 2, Appli
41	828	95.5	423	9	US-10-010-448-2	Sequence 2, Appli
42	828	95.5	423	9	US-10-449-456-23	Sequence 23, Appli
43	828	95.5	423	9	US-10-448-667-23	Sequence 23, Appli
44	828	95.5	423	9	US-09-725-433-4	Sequence 4, Appli
45	828	95.5	423	9	US-10-284-740-12	Sequence 12, Appli

ALIGNMENTS

RESULT 1

US-09-832-658-24  
; Sequence 24, Application US/09832658  
; Publication No. US20030021765A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; APPLICANT: Pepinsky, Blake  
; APPLICANT: Runkel, Laura  
; APPLICANT: Brinkelmeier, Margot  
; APPLICANT: Whitty, Adrian  
; APPLICANT: Hochman, Paula  
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-la  
; TITLE OF INVENTION: and Uses  
; FILE REFERENCE: A065PCT  
; CURRENT APPLICATION NUMBER: US/09/832,658  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/104,572  
; PRIOR FILING DATE: 1998-10-16  
; PRIOR APPLICATION NUMBER: 60/120,161  
; PRIOR FILING DATE: 1999-02-16  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: human  
US-09-832-658-24

Query Match 97.0%; Score 841; DB 10; Length 166;  
Best Local Similarity 97.0%; Pred. No. 2.3e+80;  
Matches 161; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MSYLLGLFQRSSNFQCKLWQLNGRAACAADMMNFDIPEEIKQLQFQKEDALTYI 60

Db 1 MSYLLGLFQRSSNFQCKLWQLNGRAACAADMMNFDIPEEIKQLQFQKEDALTYI 60

QY 61 EMLQNPFAIFQDSSSTGNETIVENLLANTHOINHLKTVLEKLEKEDFTCALMSSL 120

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Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEBEKEDFTRGALMSSL 120
Qy      121 HLKRYIGRIHLKAKKEYSHCAWTIVRVEILRNFYRINRLTGYLNR 166
Db      121 HLKRYIGRIHLKAKKEYSHCAWTIVRVEILRNFYRINRLTGYLNR 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match      95.5%; Score 828; DB 10; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy      1 MSYNLLGFLQSSNFQCKLLWQNGRAAACAAADRNFDIPEIKQLQOFQKEDAAITTY 60
Db      1 MSYNLLGFLQSSNFQCKLLWQNGRLEVCYCKDRWNFDIPEIKQLQOFQKEDAAITTY 60

Qy      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEBEKEDFTRGALMSSL 120
Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEBEKEDFTRGALMSSL 120

Qy      121 HLKRYIGRIHLKAKKEYSHCAWTIVRVEILRNFYRINRLTGYLNR 166
Db      121 HLKRYIGRIHLKAKKEYSHCAWTIVRVEILRNFYRINRLTGYLNR 166

RESULT 3
US-09-832-658-27
; Sequence 27, Application US/09832658
; Publication No. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Brickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1999-02-16
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; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-27

Query Match      95.5%; Score 828; DB 10; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy      1 MSYNLLGFLQSSNFQCKLLWQNGRAAACAAADRNFDIPEIKQLQOFQKEDAAITTY 60
Db      1 MSYNLLGFLQSSNFQCKLLWQNGRAAACAAADRNFDIPEIKQLQOFQKEDAAITTY 60

Qy      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEBEKEDFTRGALMSSL 120
Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEBEKEDFTRGALMSSL 120

Qy      121 HLKRYIGRIHLKAKKEYSHCAWTIVRVEILRNFYRINRLTGYLNR 166
Db      121 HLKRYIGRIHLKAKKEYSHCAWTIVRVEILRNFYRINRLTGYLNR 166

RESULT 4
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Pravaga, Subhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match      95.5%; Score 828; DB 12; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy      1 MSYNLLGFLQSSNFQCKLLWQNGRAAACAAADRNFDIPEIKQLQOFQKEDAAITTY 60
Db      1 MSYNLLGFLQSSNFQCKLLWQNGRLEVCYCKDRWNFDIPEIKQLQOFQKEDAAITTY 60

Qy      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEBEKEDFTRGALMSSL 120
Db      61 EMLQNIFAIPRODSSSTGNETIVENLLANVYHQINHLKTVLEBEKEDFTRGALMSSL 120

Qy      121 HLKRYIGRIHLKAKKEYSHCAWTIVRVEILRNFYRINRLTGYLNR 166
Db      121 HLKRYIGRIHLKAKKEYSHCAWTIVRVEILRNFYRINRLTGYLNR 166

RESULT 5
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorraine
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PPI8399.002
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; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match          95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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DB 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDIPEIKQLQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGWNETHVNLNANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETHVNLNANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166

RESULT 6
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTEUP, Joern
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRAAAACAADRMNFDIPEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDIPEIKQLQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGWNETHVNLNANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETHVNLNANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166

RESULT 7
US-10-186-962-1

Query Match          95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRAAAACAADRMNFDIPEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDIPEIKQLQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGWNETHVNLNANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETHVNLNANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166

US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRAAAACAADRMNFDIPEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDIPEIKQLQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGWNETHVNLNANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETHVNLNANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166

RESULT 8
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US20030166865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRAAAACAADRMNFDIPEIKQLQFQKEDAAITY 60
DB 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDIPEIKQLQFQKEDAAITY 60

QY 61 EMLQNIFAIFRODSSSTGWNETHVNLNANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRODSSSTGWNETHVNLNANVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120

QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166
DB 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINELTGYLRN 166
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QY 121 HLKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166  
DB 121 HLKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166

## RESULT 9

US-10-084-706-2  
; Sequence 2, Application US/10084706  
; Publication No. US20030170206A1  
; GENERAL INFORMATION:  
; APPLICANT: RASMUSSEN, Poul Baad  
; APPLICANT: DRUSTRUP, Jørn  
; APPLICANT: RASMUSSEN, Grette  
; APPLICANT: PEDERSEN, Anders Hjelholt  
; APPLICANT: SCHAMBYE, Hans Thalesgard  
; APPLICANT: ANDERSEN, Kim Vilbour  
; APPLICANT: BORN, Claus  
; APPLICANT: Maxygen Aps  
; APPLICANT: Maxygen Holdings Ltd.  
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES  
; FILE REFERENCE: 0228us410  
; CURRENT FILING DATE: 2002-02-26  
; PRIOR APPLICATION NUMBER: US 60/272,116  
; PRIOR FILING DATE: 2001-02-27  
; PRIOR APPLICATION NUMBER: US 60/343,436  
; PRIOR FILING DATE: 2001-12-21  
; PRIOR APPLICATION NUMBER: US 60/302,140  
; PRIOR FILING DATE: 2001-06-29  
; PRIOR APPLICATION NUMBER: US 60/316,170  
; PRIOR FILING DATE: 2001-08-30  
; PRIOR APPLICATION NUMBER: not yet assigned  
; PRIOR FILING DATE: 2002-02-19  
; PRIOR APPLICATION NUMBER: DX PA 2001 00393  
; PRIOR FILING DATE: 2001-03-01  
; PRIOR APPLICATION NUMBER: US 09/648,569  
; PRIOR FILING DATE: 2000-08-25  
; NUMBER OF SEQ ID NOS: 57  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CHAIN  
; LOCATION: (1)...(166)  
; OTHER INFORMATION: HIFNB mature sequence  
US-10-084-706-2

Query Match 95.5%; Score 828; DB 14; Length 166;  
Best Local Similarity 95.8%; Pred. No. 5.3e-79;  
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWLNQNGRAACAADRMNFDIPEEIKOLOQFOKEDAAITTY 60  
DB 1 MSYNLLGFLQSSNFQCKLLWLNQNGRLLEYCLKDRMNFDPPEEIKOLOQFOKEDAAITTY 60  
QY 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166  
DB 121 HLKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166

## RESULT 10

US-10-298-148-5  
; Sequence 5, Application US/10298148  
; Publication No. US20030171284A1  
; GENERAL INFORMATION:  
; APPLICANT: Cox III, George N

; APPLICANT: Bolder Biotechnology, Inc.  
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins  
; FILE REFERENCE: 4152-1-PUS  
; CURRENT APPLICATION NUMBER: US/10/298,148  
; CURRENT FILING DATE: 2002-11-15  
; PRIOR APPLICATION NUMBER: US/09/462,941  
; PRIOR FILING DATE: 2000-01-14  
; PRIOR APPLICATION NUMBER: 60/052,516  
; PRIOR FILING DATE: 1997-07-14  
; NUMBER OF SEQ ID NOS: 41  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-298-148-5

Query Match 95.5%; Score 828; DB 14; Length 166;  
Best Local Similarity 95.8%; Pred. No. 5.3e-79;  
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWLNQNGRAACAADRMNFDIPEEIKOLOQFOKEDAAITTY 60  
DB 1 MSYNLLGFLQSSNFQCKLLWLNQNGRLLEYCLKDRMNFDPPEEIKOLOQFOKEDAAITTY 60  
QY 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166  
DB 121 HLKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166

## RESULT 11

US-10-325-720-2  
; Sequence 2, Application US/10325720  
; Publication No. US20030175240A1  
; GENERAL INFORMATION:  
; APPLICANT: Pedersen, A.H., et al.  
; APPLICANT: Maxygen Aps  
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates  
; FILE REFERENCE: 020us820  
; CURRENT APPLICATION NUMBER: US/10/325,720  
; CURRENT FILING DATE: 2002-12-19  
; PRIOR APPLICATION NUMBER: US 09/648,569  
; PRIOR FILING DATE: 2000-08-25  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-325-720-2

Query Match 95.5%; Score 828; DB 14; Length 166;  
Best Local Similarity 95.8%; Pred. No. 5.3e-79;  
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWLNQNGRAACAADRMNFDIPEEIKOLOQFOKEDAAITTY 60  
DB 1 MSYNLLGFLQSSNFQCKLLWLNQNGRLLEYCLKDRMNFDPPEEIKOLOQFOKEDAAITTY 60  
QY 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
DB 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANYVHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166  
DB 121 HLKRYGRIILHYLKAKEYSHCAWTVIRVEILRNFRINRLTGILRN 166

## RESULT 12

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US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match          95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRAAACAAADRMNFDIPEEIKOLOQFOKEDAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEEIKOLOQFOKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 13
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US20030186886A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          95.5%; Score 828; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRAAACAAADRMNFDIPEEIKOLOQFOKEDAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEEIKOLOQFOKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
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Db 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 14
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsgørd
; APPLICANT: ANDERSEN, Kim Vilbøur
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: HIFNB mature sequence
US-10-609-296-2

Query Match          95.5%; Score 828; DB 15; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNFQCKLLWQNGRAAACAAADRMNFDIPEEIKOLOQFOKEDAALTY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEEIKOLOQFOKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166

RESULT 15
US-10-448-667-1
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; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewan
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Maschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-448-667-1

Query Match      95.5%; Score 828; DB 16; Length 166;
Best Local Similarity 95.8%; Pred. No. 5.3e-79;
Matches 159; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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Db      1 MSYNLLGFLQSSNFQCCQLLWQLNGRAACAAADRMNFDIPEEIKQLOQFOKEDAAALTY 60
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QY      61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
      |||||||
Db      61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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QY      121 HLKRYVGRILHLVYLKAKYSHCAWTIVRVEILNFYINRLTGILRN 166
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Db      121 HLKRYVGRILHLVYLKAKYSHCAWTIVRVEILNFYINRLTGILRN 166
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Job time : 33.2 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds  
(without alignments)  
1391.307 Million cell updates/sec

Title: US-09-832-659a-46  
Perfect score: 859  
Sequence: 1 MSYNLLGFLORSSNAACAAL.....RVEILRNFYRINLTGYLRN 166

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Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	826	96.2	166	10	US-09-832-658-24
2	813	94.6	166	10	US-09-971-843-7
3	813	94.6	166	12	US-09-732-436-16
4	813	94.6	166	14	US-10-246-932-1
5	813	94.6	166	14	US-10-186-962-1
6	813	94.6	166	14	US-10-400-377-5
7	813	94.6	166	14	US-10-400-708-5
8	813	94.6	166	14	US-10-084-706-2
9	813	94.6	166	14	US-10-298-148-5
10	813	94.6	166	14	US-10-325-720-2
11	813	94.6	166	14	US-10-351-189-2
12	813	94.6	166	14	US-10-449-456-1
13	813	94.6	166	15	US-10-609-296-2
14	813	94.6	166	16	US-10-448-667-1
15	813	94.6	183	9	US-09-832-659-4

16	813	94.6	183	10	US-09-832-658-2	Sequence 2, Appli
17	813	94.6	186	12	US-10-449-831A-146	Sequence 146, App
18	813	94.6	187	9	US-09-788-552-1	Sequence 1, Appli
19	813	94.6	187	9	US-09-919-632A-9	Sequence 9, Appli
20	813	94.6	187	12	US-10-411-037-6	Sequence 6, Appli
21	813	94.6	187	12	US-09-881-050-17	Sequence 17, Appli
22	813	94.6	187	12	US-10-411-026-6	Sequence 6, Appli
23	813	94.6	187	13	US-10-004-201-2	Sequence 2, Appli
24	813	94.6	187	14	US-10-036-373-2	Sequence 9, Appli
25	813	94.6	187	14	US-10-418-038-9	Sequence 6, Appli
26	813	94.6	187	16	US-10-410-962-6	Sequence 11, Appli
27	813	94.6	187	16	US-10-411-049-6	Sequence 192, App
28	813	94.6	199	12	US-09-766-920B-11	Sequence 2, Appli
29	813	94.6	234	12	US-10-449-831A-192	Sequence 26, Appli
30	813	94.6	399	9	US-09-832-659-2	Sequence 1, Appli
31	812	94.5	166	10	US-09-832-658-26	Sequence 1, Appli
32	811	94.4	166	12	US-10-035-420-1	Sequence 7, Appli
33	811	94.4	166	12	US-10-010-448-1	Sequence 42, Appli
34	810	94.3	187	9	US-09-927-850-7	Sequence 44, Appli
35	806	93.8	166	9	US-09-788-553-2	Sequence 2, Appli
36	804	93.6	418	9	US-09-832-659-42	Sequence 2, Appli
37	803	93.5	423	9	US-09-832-659-44	Sequence 1, Appli
38	803	93.4	166	14	US-10-246-932-2	Sequence 2, Appli
39	802	93.4	166	15	US-10-168-956A-1	Sequence 1, Appli
40	801	93.2	166	12	US-10-035-420-2	Sequence 2, Appli
41	801	93.2	166	12	US-10-010-448-2	Sequence 4, Appli
42	783	91.2	187	9	US-09-725-433-4	Sequence 12, Appli
43	783	91.2	187	14	US-10-284-740-12	Sequence 23, Appli
44	773	90.0	166	14	US-10-449-456-23	Sequence 23, Appli
45	773	90.0	166	16	US-10-448-667-23	

ALIGNMENTS

RESULT 1

US-09-832-658-24  
; Sequence 24, Application US/09832658  
; Publication No. US20030021765A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; APPLICANT: Pepinsky, Blake  
; APPLICANT: Runkel, Laura  
; APPLICANT: Brickelmaier, Margot  
; APPLICANT: Whitty, Adrian  
; APPLICANT: Hochman, Paula  
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a  
; TITLE OF INVENTION: and Uses  
; FILE REFERENCE: A065PCT  
; CURRENT APPLICATION NUMBER: US/09/832,658  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/104,572  
; PRIOR FILING DATE: 1998-10-16  
; PRIOR APPLICATION NUMBER: 60/120,161  
; PRIOR FILING DATE: 1999-02-16  
; NUMBER OF SEQ ID NOS: 29  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 24  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: human  
US-09-832-658-24

Query Match 96.2%; Score 826; DB 10; Length 166;  
Best Local Similarity 96.4%; Pred. No. 1.9e-78;  
Matches 160; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLORSSNAACAALAAALNGRLEYCLKDRNFDIPEIKQLQFQKEDAAITY 60  
Db 1 MSYNLLGFLORSSNFQCKLLQWNGRLEYCLKDRNFDIPEIKQLQFQKEDAAITY 60  
Qy 61 EMLGNIPAFIPQDSSSTGMNTEIVNLLANVYHQINHLKTVLBEKLEKEDFTGALMSSL 120

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Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLBEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGILRN 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGILRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/387,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 94.6%; Score 813; DB 10; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLCYCLKDRNFDIPEEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLQSSNAACAALLAALNGRLCYCLKDRNFDIPEEIKOLOQFOKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLBEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLBEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGILRN 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGILRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT

US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT
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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match 94.6%; Score 813; DB 12; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLCYCLKDRNFDIPEEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLQSSNAACAALLAALNGRLCYCLKDRNFDIPEEIKOLOQFOKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLBEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLBEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGILRN 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGILRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorianne
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: P018399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match 94.6%; Score 813; DB 14; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLCYCLKDRNFDIPEEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLQSSNAACAALLAALNGRLCYCLKDRNFDIPEEIKOLOQFOKEDAAITY 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLBEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLBEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGILRN 166
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGILRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxygen APS
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-186-962-1

Query Match          94.6%; Score 813; DB 14; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLCYCLKDRMNFDPPEIKQLQOQFKEDAALTIY 60
DB 1 MSYNLLGFLQSSNFQCKLLQNLNGRLCYCLKDRMNFDPPEIKQLQOQFKEDAALTIY 60
QY 61 EMLQNIFAIFRDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400.377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462.941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-400-377-5

Query Match          94.6%; Score 813; DB 14; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLCYCLKDRMNFDPPEIKQLQOQFKEDAALTIY 60
DB 1 MSYNLLGFLQSSNFQCKLLQNLNGRLCYCLKDRMNFDPPEIKQLQOQFKEDAALTIY 60
QY 61 EMLQNIFAIFRDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US20030166865A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N

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; APPLICANT: Bolder Biotechnology, Inc.
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400.708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462.941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-400-708-5

Query Match          94.6%; Score 813; DB 14; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLCYCLKDRMNFDPPEIKQLQOQFKEDAALTIY 60
DB 1 MSYNLLGFLQSSNFQCKLLQNLNGRLCYCLKDRMNFDPPEIKQLQOQFKEDAALTIY 60
QY 61 EMLQNIFAIFRDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
DB 61 EMLQNIFAIFRDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
DB 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166

RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalesg-rd
; APPLICANT: ANDERSEN, Kim Vilbourn
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084.706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272.116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343.436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302.140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316.170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648.569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:

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; NAME/KEY: CHAIN
; LOCATION: (1).....(166)
; OTHER INFORMATION: h1FNB mature sequence
US-10-084-706-2

Query Match          94.6%; Score 813; DB 14; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTYI 60
Db 1 MSYNLLGFLQSSNFQCCKLLQWLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 9
US-10-298-148-5
; Sequence 5, Application US/10298148
; Publication No. US20030171284A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/298,148
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-298-148-5

Query Match          94.6%; Score 813; DB 14; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTYI 60
Db 1 MSYNLLGFLQSSNFQCCKLLQWLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 10
US-10-325-720-2
; Sequence 2, Application US/10325720
; Publication No. US20030175240A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us820
; CURRENT APPLICATION NUMBER: US/10/325,720
; CURRENT FILING DATE: 2002-12-19
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; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-325-720-2

Query Match          94.6%; Score 813; DB 14; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTYI 60
Db 1 MSYNLLGFLQSSNFQCCKLLQWLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 11
US-10-351-189-2
; Sequence 2, Application US/10351189
; Publication No. US20030175241A1
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us830
; CURRENT APPLICATION NUMBER: US/10/351,189
; CURRENT FILING DATE: 2003-01-24
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-351-189-2

Query Match          94.6%; Score 813; DB 14; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTYI 60
Db 1 MSYNLLGFLQSSNFQCCKLLQWLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAALTYI 60
QY 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166
Db 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLRN 166

RESULT 12
US-10-449-456-1
; Sequence 1, Application US/10449456
; Publication No. US2003018686A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewandter
; APPLICANT: Schneider-Fresenius, Christian
; APPLICANT: Otto, Bernd
```

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; APPLICANT: Maschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; PRIORITY FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-449-456-1

Query Match          94.6%; Score 813; DB 14; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNAACAAALAAALNGRLLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Qy 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRVIRNLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRVIRNLTGYLRN 166

RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thales+r
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORN, Claus
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; PRIOR FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: hIFNB mature sequence
US-10-609-296-2

Query Match          94.6%; Score 813; DB 15; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNAACAAALAAALNGRLLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Qy 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRVIRNLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRVIRNLTGYLRN 166

RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Maschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-448-667-1

Query Match          94.6%; Score 813; DB 16; Length 166;
Best Local Similarity 95.2%; Pred. No. 4.4e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 1 MSYNLLGFLQSSNAACAAALAAALNGRLLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Db 1 MSYNLLGFLQSSNFQCKLLWQLNGRLLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
Qy 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIFRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Qy 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRVIRNLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRVIRNLTGYLRN 166

RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US20020155547A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses
; FILE REFERENCE: A064PCTSEQ
; CURRENT APPLICATION NUMBER: US/09/832,659
; CURRENT FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/120,237
; PRIOR FILING DATE: 1998-02-16
; PRIOR APPLICATION NUMBER: 60/104,491
; PRIOR FILING DATE: 1998-10-16
; NUMBER OF SEQ ID NOS: 44
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 183
; TYPE: PRT
; ORGANISM: murine
US-09-832-659-4

Query Match          94.6%; Score 813; DB 9; Length 183;
Best Local Similarity 95.2%; Pred. No. 5.1e-77;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY      1 MSYNLLGFLQSSNAACALLAALNGRLCYCLKDRMNFDPPEIKQLQOQFKEDAAITY 60
Db      18 MSYNLLGFLQSSNFQCKLLWQLNGRLCYCLKDRMNFDPPEIKQLQOQFKEDAAITY 77

QY      61 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db      78 EMLQNIFAIFRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 137

QY      121 HLKRYGRILHYLKAKESHCAWTIVRVEILNRYINRLTGYLEN 166
Db      138 HLKRYGRILHYLKAKESHCAWTIVRVEILNRYINRLTGYLEN 183
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Search completed: May 19, 2004, 15:19:57  
Job time : 33.2 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 Seconds  
(without alignments)  
669.524 Million cell updates/sec

Title: US-09-832-659A-46  
Perfect score: 859  
Sequence: 1 MSYNLLGLFQSSNACAAL.....RVEILRNLYRINLTGYLRN 166

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	813	94.6	166	4	US-09-397-992A-7
2	813	94.6	166	4	US-09-569-722A-1
3	813	94.6	166	4	US-09-648-569A-2
4	813	94.6	166	4	US-09-971-843-7
5	813	94.6	166	4	US-09-403-532E-1
6	813	94.6	166	4	US-09-462-941-5
7	813	94.6	166	6	5514567-4
8	813	94.6	187	3	US-09-206-903A-9
9	813	94.6	187	3	US-08-406-030A-30
10	813	94.6	187	3	US-09-202-122-9
11	813	94.6	187	3	US-09-206-935-7
12	813	94.6	187	4	US-09-206-936-7
13	813	94.6	187	4	US-09-487-792-4
14	813	94.6	187	4	US-09-908-594-4
15	813	94.6	187	4	US-09-919-622A-9
16	813	94.6	187	6	5514567-1
17	813	94.6	415	4	US-09-215-212-14
18	811	94.4	166	2	US-08-477-310A-1
19	808	94.1	166	1	US-08-213-448-1
20	808	94.1	166	3	US-08-912-768-1
21	808	94.1	166	4	US-09-569-722A-4
22	808	94.1	166	4	US-09-569-722A-18
23	808	94.1	166	5	PCT-US95-03206-1
24	808	94.1	187	3	US-08-912-768-3
25	806	93.8	166	4	US-09-487-792-21
26	806	93.8	166	4	US-09-908-594-21
27	805	93.7	187	1	US-08-026-758-22

28	804	93.6	166	4	US-09-331-260-2	Sequence 2, Appli
29	803	93.5	166	4	US-09-569-722A-5	Sequence 5, Appli
30	796	92.7	187	6	5326859-1	Patent No. 5326859
31	794	92.4	166	4	US-09-569-722A-13	Sequence 13, Appli
32	794	92.4	166	4	US-09-569-722A-19	Sequence 19, Appli
33	789	91.9	166	4	US-09-569-722A-8	Sequence 8, Appli
34	789	91.9	166	4	US-09-569-722A-16	Sequence 16, Appli
35	787	91.6	166	4	US-09-569-722A-6	Sequence 6, Appli
36	786	91.5	166	4	US-09-569-722A-24	Sequence 24, Appli
37	784	91.3	166	4	US-09-569-722A-14	Sequence 14, Appli
38	783	91.2	166	4	US-09-569-722A-7	Sequence 7, Appli
39	783	91.2	166	4	US-09-569-722A-12	Sequence 12, Appli
40	783	91.2	166	4	US-09-569-722A-17	Sequence 17, Appli
41	782	91.0	166	4	US-09-569-722A-81	Sequence 22, Appli
42	781	90.9	166	4	US-09-569-722A-15	Sequence 15, Appli
43	778	90.6	166	4	US-09-569-722A-20	Sequence 20, Appli
44	777	90.5	166	4	US-09-569-722A-11	Sequence 11, Appli
45	776	90.3	166	4	US-09-569-722A-23	Sequence 23, Appli

## ALIGNMENTS

RESULT 1  
US-09-397-992A-7  
; Sequence 7, Application US/09397992A  
; Patent No. 6329175  
; GENERAL INFORMATION:  
; APPLICANT: Conklin, Darrell  
; APPLICANT: Grant, Francis J.  
; APPLICANT: Rixon, Mark W.  
; APPLICANT: Kingsvogel, Wayne  
; TITLE OF INVENTION: Interferon-epsilon  
; FILE REFERENCE: 98-46  
; CURRENT APPLICATION NUMBER: US/09/397,992A  
; CURRENT FILING DATE: 1999-09-16  
; PRIOR APPLICATION NUMBER: 60/101,012  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/118,578  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/142,766  
; PRIOR FILING DATE: 1999-07-08  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-397-992A-7

Query Match 94.6%; Score 813; DB 4; Length 166;  
Best Local Similarity 95.2%; Pred. No. 5.5e-81;  
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;  
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Db 61 EMLQNIFFAIFQDSSSTGTWNETIVENLLANNVYHQNHLKTVLEEKLEKEDFTRGALMSSL 120  
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Db 121 HLKRYIGRILHYLKAKESYSHCAWTIVRVEILRNLYRINLTGYLRN 166

RESULT 2  
US-09-569-722A-1  
; Sequence 1, Application US/09569722A  
; Patent No. 6514729  
; GENERAL INFORMATION:  
; APPLICANT: Bentzien, Joerg M



QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
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QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166  
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166

## RESULT 6

US-09-462-941-5  
; Sequence 5, Application US/09462941  
; Patent No. 6608193  
; GENERAL INFORMATION:  
; APPLICANT: Cox III, George N.  
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins  
; FILE REFERENCE: 4152-1-PUS  
; CURRENT APPLICATION NUMBER: US/09/462,941  
; PRIOR FILING DATE: 2000-01-14  
; PRIOR APPLICATION NUMBER: 60/052,516  
; NUMBER OF SEQ ID NOS: 41  
; SOFTWARE: Patent-In Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-462-941-5

Query Match 94.6%; Score 813; DB 4; Length 166;  
Best Local Similarity 95.2%; Pred. No. 5.5e-81;  
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;  
QY 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60  
Db 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60  
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166  
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166

## RESULT 7

5514567-4  
; Patent No. 5514567  
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,  
; TADATSUGU  
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID  
; NUMBER OF SEQUENCES: 5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/400,179  
; FILING DATE: 06-MAR-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 389,922  
; FILING DATE: 18-JUN-1982  
; APPLICATION NUMBER: 201,359  
; FILING DATE: 27-OCT-1980  
; SEQ ID NO: 4  
; LENGTH: 166  
5514567-4

Query Match 94.6%; Score 813; DB 6; Length 166;  
Best Local Similarity 95.2%; Pred. No. 5.5e-81;  
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;  
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Db 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 60

QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166  
Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166

## RESULT 8

US-09-206-903A-9  
; Sequence 9, Application US/09206903A  
; Patent No. 6200780  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Jian  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Dong-Xiao  
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS  
; FILE REFERENCE: P1224-2R1  
; CURRENT APPLICATION NUMBER: US/09/206,903A  
; PRIOR FILING DATE: 1998-12-07  
; PRIOR APPLICATION NUMBER: US 60/106,463  
; PRIOR FILING DATE: 1998-10-30  
; NUMBER OF SEQ ID NOS: 12  
; SEQ ID NO 9  
; LENGTH: 187  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-206-903A-9

Query Match 94.6%; Score 813; DB 3; Length 187;  
Best Local Similarity 95.2%; Pred. No. 6.5e-81;  
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;  
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Db 22 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKQLQOQFQKEDAALTY 81  
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141  
QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 166  
Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNFRINRLTGYLNR 187

## RESULT 9

US-08-406-030A-30  
; Sequence 30, Application US/08406030A  
; Patent No. 6270989  
; GENERAL INFORMATION:  
; APPLICANT: Treco, Douglas A.  
; APPLICANT: Heartlein, Michael W.  
; APPLICANT: Hauge, Brian M.  
; APPLICANT: Selden, Richard F.  
; TITLE OF INVENTION: Protein Production and Delivery  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: Two Militia Drive  
; CITY: Lexington  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:

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/ APPLICATION NUMBER: US 08/406,030A
/ FILING DATE: 17-MAR-1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/243,391
/ FILING DATE: 13-MAY-1994
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/985,596
/ FILING DATE: 03-DEC-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/911,533
/ FILING DATE: 10-JUL-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/787,840
/ FILING DATE: 05-NOV-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/789,188
/ FILING DATE: 05-NOV-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US93/11704
/ FILING DATE: 02-DEC-1993
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US92/09627
/ FILING DATE: 05-NOV-1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Granahan, Patricia
/ REGISTRATION NUMBER: 32,227
/ REFERENCE/DOCKET NUMBER: TK95-01
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 861-6240
/ TELEFAX: (617) 861-9540
/ INFORMATION FOR SEQ ID NO: 30:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 187 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-406-030A-30

Query Match          94.6%; Score 813; DB 3; Length 187;
Best Local Similarity 95.2%; Pred. No. 6.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAALTYI 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAALTYI 81
QY 61 EMLQNIPAFPRDSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIPAFPRDSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 142 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 187

RESULT 10
US-09-202-122-9
/ Sequence 9, Application US/09202122
/ Patent No. 6239869
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Jian
/ APPLICANT: Godowski, Paul
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Dong-Xiao
/ TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
/ FILE REFERENCE: P12242 (filed)
/ CURRENT APPLICATION NUMBER: US/09/202,122
/ CURRENT FILING DATE: 1999-03-04
/ PRIOR APPLICATION NUMBER: PCT/US98/25672
/ PRIOR FILING DATE: 1998-12-03
/ NUMBER OF SEQ ID NOS: 12
/ SEQ ID NO 9

Query Match          94.6%; Score 813; DB 3; Length 187;
Best Local Similarity 95.2%; Pred. No. 6.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAALTYI 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAALTYI 81
QY 61 EMLQNIPAFPRDSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIPAFPRDSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 142 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 187

RESULT 12
US-09-206-936-7
/ Sequence 7, Application US/09206936A
/ Patent No. 6300475
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Jian
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: No. 6300475el Interferon
/ FILE REFERENCE: E1224r1
/ CURRENT APPLICATION NUMBER: US/09/206,936A
/ CURRENT FILING DATE: 1998-12-07

Query Match          94.6%; Score 813; DB 3; Length 187;
Best Local Similarity 95.2%; Pred. No. 6.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAALTYI 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAALTYI 81
QY 61 EMLQNIPAFPRDSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIPAFPRDSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 142 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 187

RESULT 11
US-09-206-935-7
/ Sequence 7, Application US/09206935
/ Patent No. 6299877
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Jian
/ APPLICANT: Godowski, Paul
/ APPLICANT: Wood, William I.
/ APPLICANT: Zhang, Dong-Xiao
/ TITLE OF INVENTION: NOVEL TYPE I INTERFERONS
/ FILE REFERENCE: 11669.50US05
/ CURRENT APPLICATION NUMBER: US/09/206,935
/ CURRENT FILING DATE: 1998-12-07
/ EARLIER APPLICATION NUMBER: 60/084,045
/ EARLIER FILING DATE: 1998-05-04
/ NUMBER OF SEQ ID NOS: 24
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 7
/ LENGTH: 187
/ TYPE: PRT
/ ORGANISM: Homo sapiens
/ US-09-206-935-7

Query Match          94.6%; Score 813; DB 3; Length 187;
Best Local Similarity 95.2%; Pred. No. 6.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAALTYI 60
Db 22 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAALTYI 81
QY 61 EMLQNIPAFPRDSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 82 EMLQNIPAFPRDSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141
QY 121 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 166
Db 142 HLKRYVGRILHYLKKEYSHCAWTIVRVEILNRYINRLTGYLRN 187

RESULT 12
US-09-206-936-7
/ Sequence 7, Application US/09206936A
/ Patent No. 6300475
/ GENERAL INFORMATION:
/ APPLICANT: Chen, Jian
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: No. 6300475el Interferon
/ FILE REFERENCE: E1224r1
/ CURRENT APPLICATION NUMBER: US/09/206,936A
/ CURRENT FILING DATE: 1998-12-07
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; EARLIER APPLICATION NUMBER: US 60/067,897
; EARLIER FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 22
; SEQ ID NO 7
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-206-936-7

Query Match          94.6%; Score 813; DB 4; Length 187;
Best Local Similarity 95.2%; Pred. No. 6.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRNFDIPEIKOLOQFOKEDAALTYI 60
Db 22 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRNFDIPEIKOLOQFOKEDAALTYI 81
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 142 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 13
US-09-487-792-4
; Sequence 4, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
; CURRENT APPLICATION NUMBER: US/09/487,792
; EARLIER FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-487-792-4

Query Match          94.6%; Score 813; DB 4; Length 187;
Best Local Similarity 95.2%; Pred. No. 6.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRNFDIPEIKOLOQFOKEDAALTYI 60
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QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 142 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 14
US-09-908-594-4
; Sequence 4, Application US/09908594
; Patent No. 6472512
; GENERAL INFORMATION:
; APPLICANT: Lafleur, et al.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: PF482P2
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; CURRENT APPLICATION NUMBER: US/09/908,594
; CURRENT FILING DATE: 2001-07-20
; APPLICATION NUMBER: 60/292,934
; PRIOR FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/219,621
; PRIOR FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 09/487,792
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: US00/01239
; PRIOR FILING DATE: 2000-01-20
; PRIOR APPLICATION NUMBER: 09/358,587
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: US99/16424
; PRIOR FILING DATE: 1999-07-21
; PRIOR APPLICATION NUMBER: 60/093,643
; PRIOR FILING DATE: 1998-07-21
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-908-594-4

Query Match          94.6%; Score 813; DB 4; Length 187;
Best Local Similarity 95.2%; Pred. No. 6.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRNFDIPEIKOLOQFOKEDAALTYI 60
Db 22 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRNFDIPEIKOLOQFOKEDAALTYI 81
QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 120
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 141
QY 121 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
Db 142 HLKRYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 187

RESULT 15
US-09-919-622A-9
; Sequence 9, Application US/09919622A
; Patent No. 6569420
; GENERAL INFORMATION:
; APPLICANT: Chen, Jian
; APPLICANT: Godowski, Paul
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Dong-Xiao
; TITLE OF INVENTION: HUMAN INTERFERON-EPSILON: A TYPE I INTERFERON
; FILE REFERENCE: P1224R2C1 (replacement)
; CURRENT APPLICATION NUMBER: US/09/919,622A
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US 09/202122,
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/25672
; PRIOR FILING DATE: 1998-12-03
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 9
; LENGTH: 187
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-919-622A-9

Query Match          94.6%; Score 813; DB 4; Length 187;
Best Local Similarity 95.2%; Pred. No. 6.5e-81;
Matches 158; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRNFDIPEIKOLOQFOKEDAALTYI 60
Db 22 MSYNLLGFLQSSNAACAALLAALNGRLEYCLKDRNFDIPEIKOLOQFOKEDAALTYI 81
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Db	82	EMLQNI	FAI	PROD	SS	TG	WNET	I	V	E	N	L	A	N	V	H	Q	I	N	H	L	K	T	V	L	E	E	K	E	D	F	T	R	G	A	L	M	S	S	L	141
QY	121	HLKRY	YGR	I	L	H	Y	L	K	A	K	E	Y	S	H	C	A	W	T	I	V	R	E	I	L	N	F	Y	R	I	N	L	T	G	Y	L	N	166			
Db	142	HLKRY	YGR	I	L	H	Y	L	K	A	K	E	Y	S	H	C	A	W	T	I	V	R	E	I	L	N	F	Y	R	I	N	L	T	G	Y	L	N	187			

Search completed: May 19, 2004, 14:26:08  
Job time : 12.8 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: May 19, 2004, 14:21:54 ; Search time 33.2 Seconds  
(without alignments)  
1391.307 Million cell updates/sec

Title: US-09-832-659A-45

Perfect score: 867

Sequence: 1 MAYAALGALQASSNFQCKL.....RVEILNFYRINLTGYLRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1145568 seqs, 278261457 residues

Total number of hits satisfying chosen parameters: 1145568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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7: /cgn2_6/ptodata/2/pubaa/US08_NEW_PUB.pep.*
8: /cgn2_6/ptodata/2/pubaa/US08_PUBCOMB.pep.*
9: /cgn2_6/ptodata/2/pubaa/US09A_PUBCOMB.pep.*
10: /cgn2_6/ptodata/2/pubaa/US09B_PUBCOMB.pep.*
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12: /cgn2_6/ptodata/2/pubaa/US09_NEW_PUB.pep.*
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14: /cgn2_6/ptodata/2/pubaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/2/pubaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/2/pubaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/2/pubaa/US60_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	842	97.1	166	10	US-09-832-658-24
2	829	95.6	166	10	US-09-832-658-24
3	829	95.6	166	12	US-09-832-658-24
4	829	95.6	166	14	US-09-832-658-24
5	829	95.6	166	14	US-09-832-658-24
6	829	95.6	166	14	US-09-832-658-24
7	829	95.6	166	14	US-09-832-658-24
8	829	95.6	166	14	US-09-832-658-24
9	829	95.6	166	14	US-09-832-658-24
10	829	95.6	166	14	US-09-832-658-24
11	829	95.6	166	14	US-09-832-658-24
12	829	95.6	166	14	US-09-832-658-24
13	829	95.6	166	14	US-09-832-658-24
14	829	95.6	166	14	US-09-832-658-24
15	829	95.6	166	14	US-09-832-658-24

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16 829 95.6 183 10 US-09-832-658-24 Sequence 2, Appli
17 829 95.6 186 12 US-10-449-831A-146 Sequence 146, App
18 829 95.6 187 9 US-09-788-552-1 Sequence 1, Appli
19 829 95.6 187 9 US-09-919-622A-9 Sequence 9, Appli
20 829 95.6 187 12 US-10-411-037-6 Sequence 6, Appli
21 829 95.6 187 12 US-09-881-050-17 Sequence 17, Appli
22 829 95.6 187 12 US-10-411-026-6 Sequence 6, Appli
23 829 95.6 187 13 US-10-004-201-2 Sequence 2, Appli
24 829 95.6 187 14 US-10-096-373-2 Sequence 2, Appli
25 829 95.6 187 14 US-10-418-038-9 Sequence 9, Appli
26 829 95.6 187 16 US-10-410-962-9 Sequence 6, Appli
27 829 95.6 187 12 US-10-411-049-6 Sequence 6, Appli
28 829 95.6 199 12 US-09-766-920B-11 Sequence 11, Appli
29 829 95.6 234 12 US-10-449-831A-192 Sequence 192, App
30 829 95.6 399 9 US-09-832-659-2 Sequence 2, Appli
31 827 95.4 166 12 US-10-035-420-1 Sequence 1, Appli
32 827 95.4 166 12 US-10-010-448-1 Sequence 1, Appli
33 826 95.3 187 9 US-09-927-850-7 Sequence 7, Appli
34 822 94.8 166 9 US-09-788-552-2 Sequence 2, Appli
35 820 94.6 166 10 US-09-832-658-25 Sequence 25, Appli
36 820 94.6 418 9 US-09-832-659-42 Sequence 42, Appli
37 820 94.6 423 9 US-09-832-659-44 Sequence 44, Appli
38 819 94.5 166 14 US-10-246-932-2 Sequence 2, Appli
39 818 94.3 166 15 US-10-168-956A-1 Sequence 1, Appli
40 817 94.2 166 12 US-10-035-420-2 Sequence 2, Appli
41 817 94.2 166 12 US-10-010-448-2 Sequence 2, Appli
42 794 91.6 166 14 US-10-449-456-26 Sequence 26, Appli
43 794 91.6 166 16 US-10-448-667-26 Sequence 26, Appli
44 789 91.0 166 14 US-10-449-456-23 Sequence 23, Appli
45 789 91.0 166 16 US-10-448-667-23 Sequence 23, Appli
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#### ALIGNMENTS

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RESULT 1
US-09-832-658-24
; Sequence 24, Application US/09832658
; Publication No. US20030021765A1
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: Pepinsky, Blake
; APPLICANT: Runkel, Laura
; APPLICANT: Brickelmaier, Margot
; APPLICANT: Whitty, Adrian
; APPLICANT: Hochman, Paula
; TITLE OF INVENTION: Polymer Conjugates of Interferon Beta-1a
; TITLE OF INVENTION: and Uses
; FILE REFERENCE: A065PCT
; CURRENT APPLICATION NUMBER: US/09/832,658
; PRIOR FILING DATE: 2001-04-11
; PRIOR APPLICATION NUMBER: 60/104,572
; PRIOR FILING DATE: 1998-10-16
; PRIOR APPLICATION NUMBER: 60/120,161
; PRIOR FILING DATE: 1999-02-16
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 166
; TYPE: PRT
; ORGANISM: human
US-09-832-658-24
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Query Match 97.1%; Score 842; DB 10; Length 166;
Best Local Similarity 97.0%; Pred. No. 3.7e-79;
Matches 161; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLQNLGRLEYCLKQRMNFDPFEEIKLOFOFKEDAAITY 60
DB 1 MSYNLGLFQSSNFQCKLLQNLGRLEYCLKQRMNFDPFEEIKLOFOFKEDAAITY 60
QY 61 EMLQNFIFAFRODSSSTGWNTEIVENLANYHQINHLKTVLEEKLEKEDFTFGALMSSL 120
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Db 61 EMLQNIFAIPRODSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTVVRVEILRNFYINRLTGYLRN 166

RESULT 2
US-09-971-843-7
; Sequence 7, Application US/09971843
; Publication No. US20030013162A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match 95.6%; Score 829; DB 10; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLWOLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTYIY 60
Db 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTYIY 60
QY 61 EMLQNIFAIPRODSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTVVRVEILRNFYINRLTGYLRN 166

RESULT 3
US-09-732-436-16
; Sequence 16, Application US/09732436
; Publication No. US20030064919A1
; GENERAL INFORMATION:
; APPLICANT: Prayaga, Subhirdas K
; APPLICANT: Shimkets, Richard A
; TITLE OF INVENTION: Novel Polypeptides and Polynucleotides Encoding Same
; FILE REFERENCE: 15966-615
; CURRENT APPLICATION NUMBER: US/09/732,436
; CURRENT FILING DATE: 2001-09-13
; PRIOR APPLICATION NUMBER: 60/169,887
; PRIOR FILING DATE: 1999-12-09
; PRIOR APPLICATION NUMBER: 60/170,230
; PRIOR FILING DATE: 1999-12-10
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 16
; LENGTH: 166
; TYPE: PRT
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; ORGANISM: Homo sapiens
US-09-732-436-16

Query Match 95.6%; Score 829; DB 12; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLWOLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTYIY 60
Db 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTYIY 60
QY 61 EMLQNIFAIPRODSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTVVRVEILRNFYINRLTGYLRN 166

RESULT 4
US-10-246-932-1
; Sequence 1, Application US/10246932
; Publication No. US20030082138A1
; GENERAL INFORMATION:
; APPLICANT: Masuoka, Lorraine
; TITLE OF INVENTION: Methods for Treating Multiple Sclerosis
; FILE REFERENCE: PFI8399.002
; CURRENT APPLICATION NUMBER: US/10/246,932
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/322,933
; PRIOR FILING DATE: 2001-09-18
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-246-932-1

Query Match 95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLWOLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTYIY 60
Db 1 MSYNLLGFLQSSNFQCKLLWOLNGRLEYCLKDRMNFDPPEIKQLQFQKEDAALTYIY 60
QY 61 EMLQNIFAIPRODSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
Db 61 EMLQNIFAIPRODSSSTGWNETTIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
QY 121 HLKRYVGRILHYLKAKEYSHCAWTVVRVEILRNFYINRLTGYLRN 166
Db 121 HLKRYVGRILHYLKAKEYSHCAWTVVRVEILRNFYINRLTGYLRN 166

RESULT 5
US-10-186-962-1
; Sequence 1, Application US/10186962
; Publication No. US20030138403A1
; GENERAL INFORMATION:
; APPLICANT: DRUSTRUP, Joern
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: Interferon Formulations
; FILE REFERENCE: 0232us410
; CURRENT APPLICATION NUMBER: US/10/186,962
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: 60/316,170
; PRIOR FILING DATE: 2001-08-30
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; PRIOR APPLICATION NUMBER: 60/357,945
; PRIOR FILING DATE: 2002-02-19
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-186-962-1

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLWQNGRLVCLKDRNFDIPEIKLOQFQKEDAAITY 60
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Db 1 MSYNLLGFLQRSSNFQCKLLWQNGRLVCLKDRNFDIPEIKLOQFQKEDAAITY 60
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QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
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Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
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RESULT 6
US-10-400-377-5
; Sequence 5, Application US/10400377
; Publication No. US20030162949A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,377
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-377-5

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
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Db 1 MSYNLLGFLQRSSNFQCKLLWQNGRLVCLKDRNFDIPEIKLOQFQKEDAAITY 60
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QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
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Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
   |||

RESULT 7
US-10-400-708-5
; Sequence 5, Application US/10400708
; Publication No. US2003016685A1
; GENERAL INFORMATION:
; APPLICANT: Cox III, George N
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins
; FILE REFERENCE: 4152-1-PUS
; CURRENT APPLICATION NUMBER: US/10/400,708
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US/09/462,941
; PRIOR FILING DATE: 2000-01-14
; PRIOR APPLICATION NUMBER: 60/052,516
; PRIOR FILING DATE: 1997-07-14
; NUMBER OF SEQ ID NOS: 41
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-400-708-5

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLWQNGRLVCLKDRNFDIPEIKLOQFQKEDAAITY 60
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Db 1 MSYNLLGFLQRSSNFQCKLLWQNGRLVCLKDRNFDIPEIKLOQFQKEDAAITY 60
   |||

QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||
Db 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
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Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILRNFYINRLTGYLRN 166
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RESULT 8
US-10-084-706-2
; Sequence 2, Application US/10084706
; Publication No. US20030170206A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jorn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsgard
; APPLICANT: ANDERSEN, Kim Vilbour
; APPLICANT: BORNSEN, Claus
; APPLICANT: Maxygen Aps
; APPLICANT: Maxygen Holdings Ltd.
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/084,706
; CURRENT FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/449,456
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: US/09/403,532E
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-449-456-1

Query Match          95.6%; Score 829; DB 14; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
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Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
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QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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QY 121 HLKRYGRIILHYLKKEYSHCAWTIVRVEILRNFRINELTGYLRN 166
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Db 121 HLKRYGRIILHYLKKEYSHCAWTIVRVEILRNFRINELTGYLRN 166
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RESULT 13
US-10-609-296-2
; Sequence 2, Application US/10609296
; Publication No. US20040013644A1
; GENERAL INFORMATION:
; APPLICANT: RASMUSSEN, Poul Baad
; APPLICANT: DRUSTRUP, Jørn
; APPLICANT: RASMUSSEN, Grethe
; APPLICANT: PEDERSEN, Anders Hjelholt
; APPLICANT: SCHAMBYE, Hans Thalsgørd
; APPLICANT: ANDERSEN, Kim Vilbøur
; APPLICANT: BØRNS, Claus
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
; FILE REFERENCE: 0228us410
; CURRENT APPLICATION NUMBER: US/10/609,296
; CURRENT FILING DATE: 2003-06-27
; PRIOR APPLICATION NUMBER: US/10/084,706
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: US 60/272,116
; PRIOR FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/343,436
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: US 60/302,140
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/316,170
; PRIOR FILING DATE: 2001-08-30
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: DK PA 2001 00333
; PRIOR FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: US 09/648,569
; PRIOR FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 57
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
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; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CHAIN
; LOCATION: (1)...(166)
; OTHER INFORMATION: HIFNB mature sequence
US-10-609-296-2

Query Match          95.6%; Score 829; DB 15; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
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Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
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QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 121 HLKRYGRIILHYLKKEYSHCAWTIVRVEILRNFRINELTGYLRN 166
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Db 121 HLKRYGRIILHYLKKEYSHCAWTIVRVEILRNFRINELTGYLRN 166
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RESULT 14
US-10-448-667-1
; Sequence 1, Application US/10448667
; Publication No. US20040022763A1
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutza, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/10/448,667
; CURRENT FILING DATE: 2003-05-30
; PRIOR APPLICATION NUMBER: 09/403,532
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-448-667-1

Query Match          95.6%; Score 829; DB 16; Length 166;
Best Local Similarity 95.8%; Pred. No. 8.2e-78;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
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Db 1 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60
: : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

QY 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 61 EMLQNIFAIPRODSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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QY 121 HLKRYGRIILHYLKKEYSHCAWTIVRVEILRNFRINELTGYLRN 166
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Db 121 HLKRYGRIILHYLKKEYSHCAWTIVRVEILRNFRINELTGYLRN 166
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RESULT 15
US-09-832-659-4
; Sequence 4, Application US/09832659
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; Patent No. US20020155547A1  
; GENERAL INFORMATION:  
; APPLICANT: BIOGEN, INC.  
; TITLE OF INVENTION: Interferon-Beta Fusion Proteins and Uses  
; FILE REFERENCE: A064PCTSEQ  
; CURRENT APPLICATION NUMBER: US/09/832,659  
; CURRENT FILING DATE: 2001-04-11  
; PRIOR APPLICATION NUMBER: 60/120,237  
; PRIOR FILING DATE: 1999-02-16  
; PRIOR APPLICATION NUMBER: 60/104,491  
; PRIOR FILING DATE: 1998-10-16  
; NUMBER OF SEQ ID NOS: 44  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 183  
; TYPE: PRT  
; ORGANISM: murine  
US-09-832-659-4

Query Match 95.8%; Score 829; DB 9; Length 183;  
Best Local Similarity 95.8%; Fred. No. 9.4e-78;  
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;  
QY 1 MAYAALGALQASNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQOFQKEDAAITY 60  
Db :|||||  
QY 18 MSYNLLGFLQSSNFQCKLLWQNGRLEYCLKDRMNFDPPEIKOLOQOFQKEDAAITY 77  
Db :|||||  
QY 61 EMLQNIPAIQPDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
Db :|||||  
QY 78 EMLQNIPAIQPDSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSL 137  
Db :|||||  
QY 121 HLKRYGRILHLKAKKEYSHCAWTIVRVEILRNFYINELTGYLRN 166  
Db 138 HLKRYGRILHLKAKKEYSHCAWTIVRVEILRNFYINELTGYLRN 183

Search completed: May 19, 2004, 15:19:57  
Job time : 34.2 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

CM protein - protein search, using sw model

Run on: May 19, 2004, 14:17:34 ; Search time 12.8 seconds  
(without alignments)  
669.524 Million cell updates/sec

Title: US-09-832-659A-45

Perfect score: 867  
Sequence: 1 MAYAALGALQASSNFQCKL.....RVEILRNFYRINRLTGYLRN 166

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA.\*

- 1: /cgn2\_6/ptodata/2/iaa/5A COMB.pap.\*
- 2: /cgn2\_6/ptodata/2/iaa/5B COMB.pap.\*
- 3: /cgn2\_6/ptodata/2/iaa/6A COMB.pap.\*
- 4: /cgn2\_6/ptodata/2/iaa/6B COMB.pap.\*
- 5: /cgn2\_6/ptodata/2/iaa/PCTUS COMB.pap.\*
- 6: /cgn2\_6/ptodata/2/iaa/backfiles.pap.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	829	95.6	166	4	US-09-397-992A-7
2	829	95.6	166	4	US-09-569-722A-1
3	829	95.6	166	4	US-09-648-569A-2
4	829	95.6	166	4	US-09-971-843-7
5	829	95.6	166	4	US-09-403-532E-1
6	829	95.6	166	4	US-09-462-941-5
7	829	95.6	166	6	5514567-4
8	829	95.6	187	3	US-09-206-903A-9
9	829	95.6	187	3	US-08-406-030A-30
10	829	95.6	187	3	US-09-202-122-9
11	829	95.6	187	3	US-09-206-935-7
12	829	95.6	187	4	US-09-206-936-7
13	829	95.6	187	4	US-09-487-732-4
14	829	95.6	187	4	US-09-908-594-4
15	829	95.6	187	4	US-09-919-622A-9
16	829	95.6	187	6	5514567-1
17	829	95.6	415	4	US-09-215-212-14
18	827	95.4	166	2	US-08-477-310A-1
19	824	95.0	166	1	US-08-213-448-1
20	824	95.0	166	3	US-08-912-768-1
21	824	95.0	166	4	US-09-569-722A-4
22	824	95.0	166	4	US-09-569-722A-18
23	824	95.0	166	5	PCT-US95-03206-1
24	824	95.0	187	3	US-08-912-768-3
25	822	94.8	166	4	US-09-487-732-21
26	822	94.8	166	4	US-09-908-594-21
27	821	94.7	187	1	US-08-026-758-22

28	820	94.6	166	4	US-09-331-260-2	Sequence 2, Appli
29	819	94.5	166	4	US-09-569-722A-5	Sequence 5, Appli
30	812	93.7	187	6	5326859-1	Patent No. 5326859
31	810	93.4	166	4	US-09-569-722A-13	Sequence 13, Appl
32	810	93.4	166	4	US-09-569-722A-19	Sequence 19, Appl
33	805	92.8	166	4	US-09-569-722A-8	Sequence 8, Appli
34	805	92.8	166	4	US-09-569-722A-16	Sequence 16, Appli
35	803	92.6	166	4	US-09-569-722A-6	Sequence 6, Appli
36	802	92.5	166	4	US-09-569-722A-24	Sequence 24, Appl
37	800	92.3	166	4	US-09-569-722A-14	Sequence 14, Appl
38	799	92.2	166	4	US-09-569-722A-7	Sequence 7, Appli
39	799	92.2	166	4	US-09-569-722A-12	Sequence 12, Appl
40	799	92.2	166	4	US-09-569-722A-17	Sequence 17, Appl
41	798	92.0	166	4	US-09-569-722A-22	Sequence 22, Appl
42	797	91.9	166	4	US-09-569-722A-15	Sequence 15, Appl
43	794	91.6	166	4	US-09-569-722A-20	Sequence 20, Appl
44	794	91.6	166	4	US-09-403-532E-26	Sequence 26, Appl
45	793	91.5	166	4	US-09-569-722A-11	Sequence 11, Appl

#### ALIGNMENTS

RESULT 1  
US-09-397-992A-7  
; Sequence 7, Application US/09397992A  
; Patent No. 6329175  
; GENERAL INFORMATION:  
; APPLICANT: Conklin, Darrell  
; APPLICANT: Grant, Francis J.  
; APPLICANT: Rixon, Mark W.  
; APPLICANT: Kindsvogel, Wayne  
; TITLE OF INVENTION: Interferon-epsilon  
; FILE REFERENCE: 98-46  
; CURRENT APPLICATION NUMBER: US/09/397,992A  
; CURRENT FILING DATE: 1999-09-16  
; PRIOR APPLICATION NUMBER: 60/101,012  
; PRIOR FILING DATE: 1998-09-18  
; PRIOR APPLICATION NUMBER: 60/118,578  
; PRIOR FILING DATE: 1999-02-05  
; PRIOR APPLICATION NUMBER: 60/142,766  
; PRIOR FILING DATE: 1999-07-08  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-397-992A-7

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Best Local Similarity		95.8%	Pred. No. 1.3e-82;		
Matches 159;		Conservative 1;	Mismatches 6;	Indels 0;	Gaps 0;
QY	1	MAYAALGALQASSNFQCKLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60			
Db	1	MSYNLGFLQSSNFQCKLLWQLNGRLEYCLKDRMNFDPPEIKOLOQFOKEDAAITY 60			
QY	61	EMLONIFAIIRDSSSTGWNTEIVENLLANVYQHNLKTVLEKLEKEDFTRGALMSSL 120			
Db	61	EMLONIFAIIRDSSSTGWNTEIVENLLANVYQHNLKTVLEKLEKEDFTRGALMSSL 120			
QY	121	HLKRYGRILLHLKKEYSHCAWTVRVEILNFRINRLTGYLRN 166			
Db	121	HLKRYGRILLHLKKEYSHCAWTVRVEILNFRINRLTGYLRN 166			

RESULT 2  
US-09-569-722A-1  
; Sequence 1, Application US/09569722A  
; Patent No. 6514729  
; GENERAL INFORMATION:  
; APPLICANT: Bentzien, Joerg M

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; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND PROTEINS WITH INTERFERON-BETA ACTIVITY
; FILE REFERENCE: A-68059-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/569,722A
; CURRENT FILING DATE: 2000-05-11
; PRIOR APPLICATION NUMBER: US 60/133,785
; PRIOR FILING DATE: 1999-05-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-569-722A-1

Query Match          95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 1.3e-82;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLWQLNGRLLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
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Db 1 MSYLLGLFQRSSNFQCKLLWQLNGRLLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
   |||

QY 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
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Db 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
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Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
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RESULT 3
US-09-648-569A-2
; Sequence 2, Application US/09648569A
; Patent No. 6531122
; GENERAL INFORMATION:
; APPLICANT: Pedersen, A.H., et al.
; APPLICANT: Maxygen Aps
; TITLE OF INVENTION: Interferon-Beta Variants and Conjugates
; FILE REFERENCE: 0202us810
; CURRENT APPLICATION NUMBER: US/09/648,569A
; CURRENT FILING DATE: 2000-08-25
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-648-569A-2

Query Match          95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 1.3e-82;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLWQLNGRLLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
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Db 1 MSYLLGLFQRSSNFQCKLLWQLNGRLLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
   |||

QY 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||
Db 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
   |||
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
   |||

RESULT 4
US-09-971-843-7
; Sequence 7, Application US/09971843
; Patent No. 6544505
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
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; APPLICANT: Grant, Francis J.
; APPLICANT: Rixon, Mark W.
; APPLICANT: Kindsvogel, Wayne
; TITLE OF INVENTION: Interferon-epsilon
; FILE REFERENCE: 98-46D1
; CURRENT APPLICATION NUMBER: US/09/971,843
; CURRENT FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: 60/101,012
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/118,578
; PRIOR FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/142,766
; PRIOR FILING DATE: 1999-07-08
; PRIOR APPLICATION NUMBER: 09/397,992
; PRIOR FILING DATE: 1999-09-16
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-971-843-7

Query Match          95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 1.3e-82;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLWQLNGRLLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
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Db 1 MSYLLGLFQRSSNFQCKLLWQLNGRLLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
   |||

QY 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||
Db 61 EMLQNIFAIPRODSSSTGWNTEIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120
   |||

QY 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
   |||
Db 121 HLKRYGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166
   |||

RESULT 5
US-09-403-532E-1
; Sequence 1, Application US/09403532E
; Patent No. 6572853
; GENERAL INFORMATION:
; APPLICANT: Fraunhofer-Gesellschaft zur Foerderung Angewand
; APPLICANT: Schneider-Presenius, Christian
; APPLICANT: Otto, Bernd
; APPLICANT: Waschutz, Gero
; TITLE OF INVENTION: HUMAN RECOMBINANT BETA-INTERFERON WITH IMPROVED SOLUBILITY
; FILE REFERENCE: 127-65050
; CURRENT APPLICATION NUMBER: US/09/403,532E
; CURRENT FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: PCT/EP/98/02238
; PRIOR FILING DATE: 1998-04-16
; PRIOR APPLICATION NUMBER: DE 19717864.2
; PRIOR FILING DATE: 1997-04-23
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 1
; LENGTH: 166
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-403-532E-1

Query Match          95.6%; Score 829; DB 4; Length 166;
Best Local Similarity 95.8%; Pred. No. 1.3e-82;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 MAYAALGALQASSNFQCKLLWQLNGRLLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
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Db 1 MSYLLGLFQRSSNFQCKLLWQLNGRLLEYCLKDRNFDIPEIKLOQFQKEDAAITY 60
   |||
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QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
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Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
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QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166  
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Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166  
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## RESULT 6

US-09-462-941-5  
; Sequence 5, Application US/09462941  
; Patent No. 608183  
; GENERAL INFORMATION:  
; APPLICANT: Cox III, George N.  
; TITLE OF INVENTION: Derivatives of Growth Hormone and Related Proteins  
; FILE REFERENCE: 4152-1-PUS  
; CURRENT APPLICATION NUMBER: US/09/462,941  
; CURRENT FILING DATE: 2000-01-14  
; PRIOR APPLICATION NUMBER: 60/052,516  
; PRIOR FILING DATE: 1997-07-14  
; NUMBER OF SEQ ID NOS: 41  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 166  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-462-941-5

Query Match 95.6%; Score 829; DB 4; Length 166;  
Best Local Similarity 95.8%; Pred. No. 1.3e-82;  
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;  
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Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
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QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166  
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Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166  
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## RESULT 7

5514567-4  
; Patent No. 5514567  
; APPLICANT: SUGANO, HARUO; MURAMATSU, MASAMI; TANIGUCHI,  
; TADATSUGU  
; TITLE OF INVENTION: DNA AND RECOMBINANT PLASMID  
; NUMBER OF SEQUENCES: 5  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/400,179  
; FILING DATE: 06-MAR-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 389,922  
; FILING DATE: 18-JUN-1982  
; APPLICATION NUMBER: 201,359  
; FILING DATE: 27-OCT-1980  
; SEQ ID NO: 4  
; LENGTH: 166  
5514567-4

Query Match 95.6%; Score 829; DB 6; Length 166;  
Best Local Similarity 95.8%; Pred. No. 1.3e-82;  
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;  
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Db 1 MSYNLLGFLQSSNFQCCOKLLWQLNGRLEYCLKDRMNFDPPEIKQLQQFQKEDAAITTY 60  
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QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
|||  
Db 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
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QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166  
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Db 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166  
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## RESULT 8

US-09-206-903A-9  
; Sequence 9, Application US/09206903A  
; Patent No. 6200780  
; GENERAL INFORMATION:  
; APPLICANT: Chen, Jian  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Dong-Xiao  
; TITLE OF INVENTION: NOVEL TYPE I INTERFERONS  
; FILE REFERENCE: P1224-2R1  
; CURRENT APPLICATION NUMBER: US/09/206,903A  
; CURRENT FILING DATE: 1998-12-07  
; PRIOR APPLICATION NUMBER: US 60/106,463  
; PRIOR FILING DATE: 1998-10-30  
; NUMBER OF SEQ ID NOS: 12  
; SEQ ID NO 9  
; LENGTH: 187  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-206-903A-9

Query Match 95.6%; Score 829; DB 3; Length 187;  
Best Local Similarity 95.8%; Pred. No. 1.5e-82;  
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;  
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QY 61 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 120  
|||  
Db 82 EMLQNIFAIFRODSSSTGNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGALMSSL 141  
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QY 121 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 166  
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Db 142 HLKRYVGRILHYLKAKEYSHCAWTIVRVEILNRYFNRLTGYLRN 187  
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## RESULT 9

US-08-406-030A-30  
; Sequence 30, Application US/08406030A  
; Patent No. 6270989  
; GENERAL INFORMATION:  
; APPLICANT: Treco, Douglas A.  
; APPLICANT: Heartlein, Michael W.  
; APPLICANT: Hauge, Brian M.  
; APPLICANT: Selden, Richard F.  
; TITLE OF INVENTION: Protein Production and Delivery  
; NUMBER OF SEQUENCES: 30  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.  
; STREET: Two Militia Drive  
; CITY: Lexington  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02173  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:



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Query Match          95.6%; Score 829; DB 4; Length 187;
Best Local Similarity 95.8%; Pred. No. 1.5e-82;
Matches 159; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

Qy 1 MAYAALGALQASNFQCKLLWOLNGRLEYCLKDRMNFDPBBIKIQJQFKEDAALTY 60
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Db 22 MSYNLGFLORSNFQCKLLWOLNGRLEYCLKDRMNFDPBBIKIQJQFKEDAALTY 81

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QY 82 EMLQIFAIIFRODSSSTGNETIVENLLANYHQINHLKTVLEEKLEKEDFTRGALMSSL 141  
Db |||||  
QY 121 HLKRYGRILHYLKAKKEYSHCAWTIVRVEILRNFYRINRLTGYLRLN 166  
Db |||||  
QY 142 HLKRYGRILHYLKAKKEYSHCAWTIVRVEILRNFYRINRLTGYLRLN 187  
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